

# TOTAL BUSINESS SOLUTIONS

## PRODUCT GUIDE 2016



Your Link to Business Success

# Choose D-Link for more performance, more reliability, more functionality

For 29 years, D-Link has been creating complete, end-to-end networking solutions that deliver just that, and more. With a track record of product innovation and industry-beating growth, D-Link is today a billion dollar company with the scale, the resources, the experience and the expertise that the world's most demanding businesses look for.

How has this been achieved? We make sure we stay really close to our customers' businesses and then, because our R&D resources are geared to fast-track product development, we provide them with early access to the most advanced solutions possible.

It all adds up to state-of-the-art solutions that will really work for your business – D-Link's switching, wireless, security, surveillance, storage and management solutions deliver best-in-class performance. We offer standardised technology with industry leading functionality integrated into highly flexible, highly reliable and highly secure solutions that are easy to implement, at a price you can afford. Who could ask for more?

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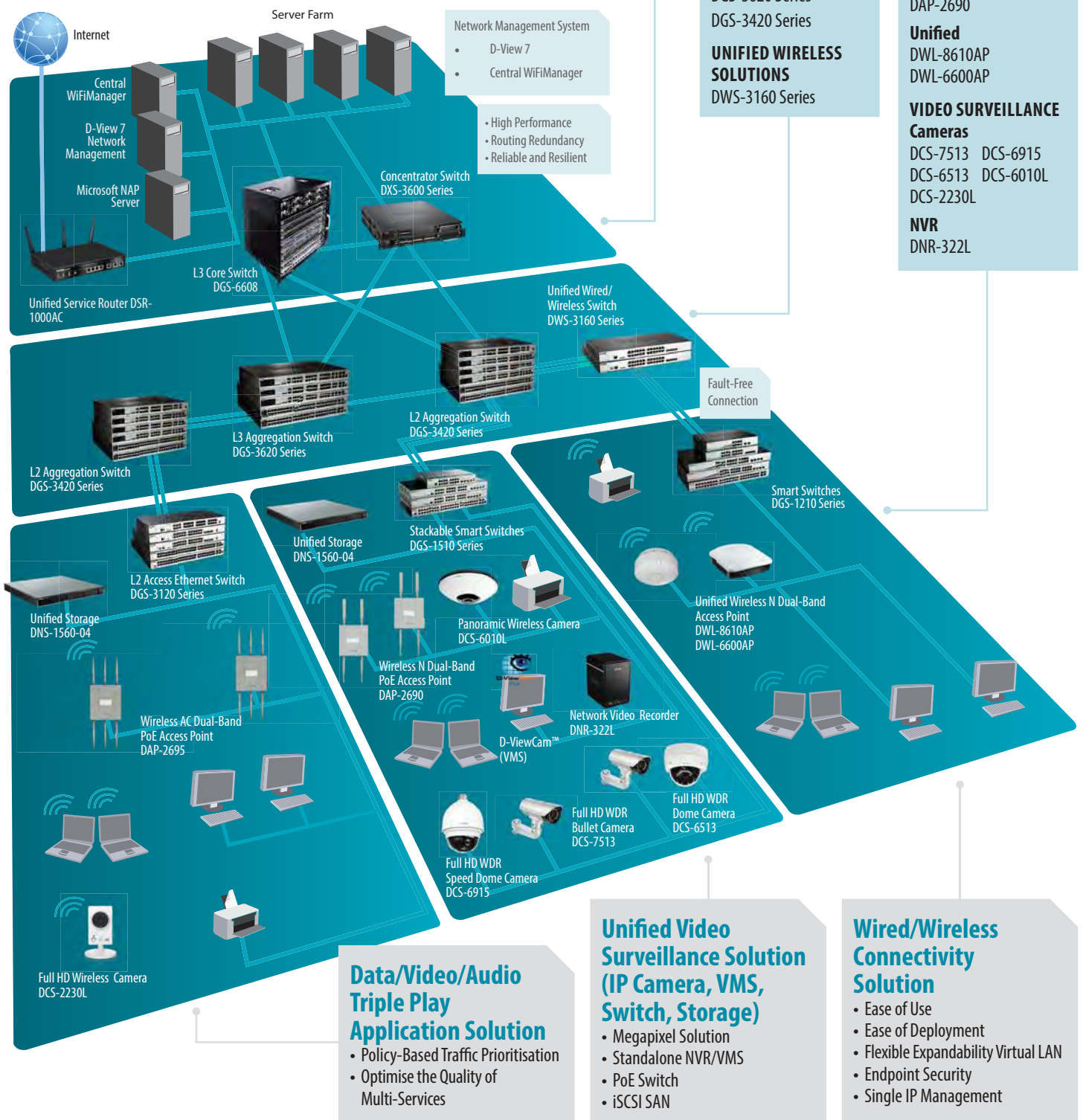
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# Key Solutions

D-Link is a global leader in providing network connectivity solutions for a range of businesses. From the beginning, D-Link engineers have researched, designed and manufactured innovative, standards-based networking solutions that provide our customers with secure, reliable, easy to manage high-performance networks. We sell our state-of-the-art hardware at the best prices, and even though price may be the deciding factor for many new customers, D-Link's innovation, reliability and service keeps them loyal year after year.



**Core Network**  
**LAYER 3 CORE ETHERNET SWITCHES**  
 DGS-6608  
 DXS-3600 Series

**Aggregation Network**  
**LAYER 2 / LAYER 3 AGGREGATED ETHERNET SWITCHES**  
 DGS-3620 Series  
 DGS-3420 Series  
**UNIFIED WIRELESS SOLUTIONS**  
 DWS-3160 Series

**Access Network**  
**LAYER 2 ACCESS ETHERNET SWITCHES**  
 DGS-3120 Series  
**SMART SWITCHES**  
 DGS-1510 Series  
 DGS-1210 Series

**STORAGE**  
 DNS-1560-04  
**WIRELESS ACCESS Standalone**  
 DAP-2695  
 DAP-2690  
**Unified**  
 DWL-8610AP  
 DWL-6600AP

**VIDEO SURVEILLANCE Cameras**  
 DCS-7513 DCS-6915  
 DCS-6513 DCS-6010L  
 DCS-2230L  
**NVR**  
 DNR-322L

**Network Management System**

- D-View 7
- Central WiFi Manager

- High Performance
- Routing Redundancy
- Reliable and Resilient

**Fault-Free Connection**

**Data/Video/Audio Triple Play Application Solution**

- Policy-Based Traffic Prioritisation
- Optimise the Quality of Multi-Services

**Unified Video Surveillance Solution (IP Camera, VMS, Switch, Storage)**

- Megapixel Solution
- Standalone NVR/VMS
- PoE Switch
- iSCSI SAN

**Wired/Wireless Connectivity Solution**

- Ease of Use
- Ease of Deployment
- Flexible Expandability Virtual LAN
- Endpoint Security
- Single IP Management



# Access Network

Over the past few years, enterprise access networks have seen one of the fastest areas of growth. As technology has evolved and user demand has increased, enterprise access networks have turned from a 'traditional' data network to a more complex network with integrated data, voice and multimedia services. D-Link, in meeting the needs of businesses to have more productive processes, is providing the following solutions for their access network:

## Wireless Connectivity

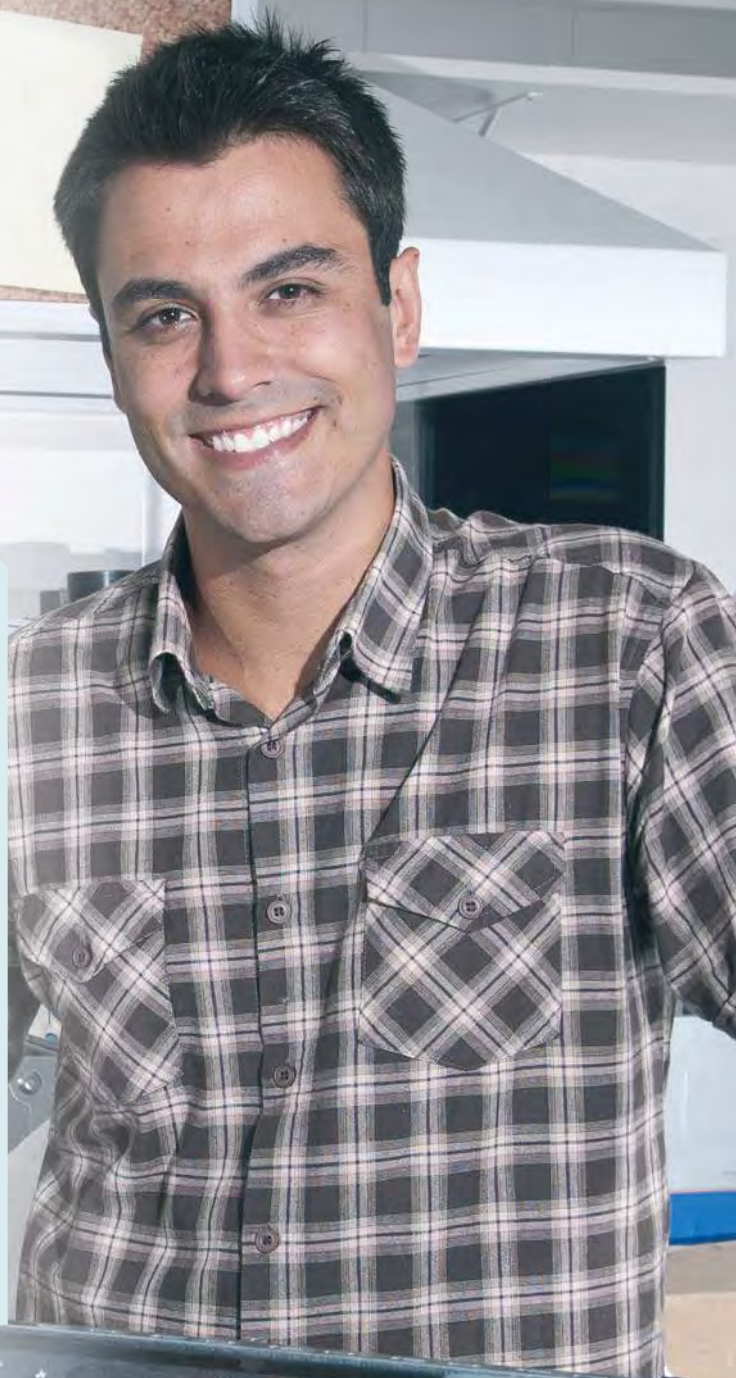
D-Link unified solutions bring robust, stable and secure wireless access to businesses. The new generation of Wireless AC and N access points offers seamless connectivity, self-healing mechanisms, traffic segmentation and centralised management to achieve a wireless environment as productive and secure as a wired network.

## Power over Ethernet

D-Link's unparalleled range of PoE switches are designed with functionality and robustness in mind. From unmanaged, plug-and-play solutions, to PoE modules in high-end chassis switches, D-Link offers features like Time-Based PoE to centrally cut off the power when not in use, and the new 802.3at PoE+ standard, to provide extra power to the next generation of network appliances.

## Video Surveillance

Traditionally, CCTV cameras, video recorders and sensors have been a separate part of a business' subsystems. IP technology applied to surveillance brings flexibility, unified management and comprehensive image recording and indexing to modern networks. With a complete range of IP cameras and Network Video Recorders (NVRs), D-Link can offer the solution that best matches your business needs.



# Aggregation Network

Aggregation Networks distribute traffic from an Access Network across the business. Routing, filtering and WAN access processes, and access to resources like network storage, all therefore take place at this level. D-Link offers flexible and robust solutions with Layer 2+ and Layer 3 managed switches, ready for the next generation of IP networks:

## IPv6-Ready

As the range of IPv4 addresses has been depleted, IPv6 is being deployed in an increasing number of organisations such as Internet Service Providers (ISP) and international data carriers. Therefore businesses need to build the migration from IPv4 to IPv6 into their Network strategies to ensure that they are able to benefit from the advanced services that only IPv6 can offer. Most D-Link aggregation switches are certified 'IPv6 Ready' and are capable of being integrated into current and future networks, protecting both your investment and IT budget.

## Bandwidth Management & Traffic Filtering and Analysis

With the surge of traffic and additional services, the business network is under increasing pressure, so IT administrators need to ensure that traffic is at a reasonable level and network resources are utilised properly. D-Link offers the tools to run a network smoothly and avoid disruptions and bottlenecks, such as bandwidth management to a high level of granularity. D-Link has SafeGuard Engine technology, too, which protects the switch from unexpected traffic peaks or virus outbreaks, and sFlow compatibility to analyse network sessions in great detail.

## Network Storage

As business data grows and new technologies like virtualisation become more widely implemented, effective reliable storage is of primary concern. D-Link's range of Network Attached Storage (NAS) devices ensure that all your important data is easily accessible yet protected from unauthorised access. RAID technology protects your content from disk failures and additional services such as FTP and File Server provide secure access to your data from the Internet. For businesses with more complex storage needs, D-Link's Unified Storage Appliances provide advanced features like consolidation, volume snapshots and virtualisation, with a range of devices that are certified 'VMware Ready'.

# Core Network

The Core is the backbone of any big business network, and is therefore the most critical 'component'. High availability, resilience and fault isolation are important factors if you are to avoid critical disruptions. D-Link has the technology to ensure that the core processes run smoothly and meet your business needs:

## 10 Gigabit

With an increase in network traffic, Gigabit technology has become a bottleneck at the core portion of the network, which is where 10 Gigabit switches come in. To ensure that the core can provide the services and features needed at the lower levels of the network, 10 Gigabit uplinks can also be deployed on Gigabit switches. D-Link offers 10 Gigabit technology in both switches and copper/fibre modules in a wide variety of Layer 2+ and Layer 3 devices.

## xStacking Technology

D-Link's stacking technology provides resilience and high availability in the form of high-speed, dual-ring stacking solutions that can work around a hardware fault in milliseconds. Faulty hardware can be hot-swapped and replaced without impacting the rest of the network, minimising downtime and ensuring that critical processes are not interrupted.





## 30-Second Layer Guide

*Network switch technology operates on a 'layer' basis to ensure total interoperability. Here's our quick guide to what the layers mean...*

### Layer 1

The Physical Layer, which governs how the network hardware fits together and its assorted electrical/optical specifications. Responsible for the transmission and reception of raw data streams via physical means.

### Layer 2

The Data Link Layer, specifies how network traffic is shared and data moved around. It's here that Ethernet switches mostly operate, forwarding traffic based on the universally implemented MAC address of attached devices. In other words, the formation of the data connection between two or more devices.

### Layer 3

The Network Layer, at which the IP networking protocol works. It's here that routing is done, based on the Internet Protocol address information. A Layer 3 switch can, therefore, route traffic between networks.

### Layers 4-7

As you move up the layers more and more information about the data inside the packets and ultimately the applications involved becomes available. Advanced switches can filter traffic using this information to make more informed decisions on how to process and direct it. It's at this level that FTP servers and the Internet operate, but that's beyond this guide.

## What's a MAC Address?

In networking terms, MAC has nothing to do with the eponymous Apple computers; it stands for Media Access Control and is a unique identifier assigned to network interfaces for communications on the physical network segment. Every device (computer, printer, IP Camera etc) has a MAC address so that a switch knows where to direct traffic.

# Switches

If a switch fails, your business can experience any number of issues, from loss of connectivity for a group of users, to major disruption and downtime for the entire network. D-Link has the knowledge and expertise to help you find the right solution for your business. From the core of your network to its edge, D-Link's comprehensive selection of switches includes 10 Gigabit, Gigabit, Fast Ethernet and PoE that range from entry level to fully managed, more sophisticated solutions. Products under this category include Unmanaged, Smart, Managed, xStack, Chassis and Unified Wireless, all as detailed below.



## Unmanaged

- The simplest way to build a network and let it pretty much run itself
- Plug-and-play connectivity, which makes these perfect for small businesses without a dedicated IT department
- Ideal for small networks that need to share resources
- Several of our unmanaged switches fall into our D-Link Green™ range, specifically designed to reduce energy consumption and utilise recycled packaging, which helps reduce the impact on the environment
- PoE-compliant, eliminating the need for external power supplies and thus allowing you to utilise current cables for a tidier system

## Smart

- Many of the benefits of Managed, as outlined below, but without the complexity or cost
- Ease of configuration through web-management
- Ideal for users wishing to build small- to medium-size networks but who don't need the advanced features necessary for large-scale corporate deployments
- PoE-compliant, eliminating the need for external power supplies, thus allowing you to utilise existing cables for a tidier system

## Smart Managed

- Centralised management and virtual stacking via D-Link's intuitive single IP management
- Layer 3 static routing allows for scalable network design for future business growth
- Supports unique Auto Voice and Auto Surveillance VLANs to prioritise traffic from VoIP phones and IP cameras in the network

## Managed

- Allows administrators to monitor traffic across the network, introduce redundancy and control access
- Found in networks with numerous users and applications, where performance and reliability must be maximised and security enforced
- Ideal for large sites where server farms are deployed, with hundreds of users sharing multiple printers and applications and routinely using wireless access and video-conferencing, such as in corporate headquarters
- Includes D-Link's industry-leading selection of xStack switches
- PoE-compliant, eliminating the need for external power supplies, thus allowing you to utilise existing cables for a tidier system

## xStack

- Award-winning range
- High performance and 10 Gigabit stacking options
- 10 Gigabit, Gigabit and Fast Ethernet versions, with Layer 2 and Layer 3 features
- PoE-compliant, eliminating the need for external power supplies, thus allowing you to utilise existing cables for a tidier system

## Chassis

- Enterprise-class performance, security and control
- Modular architecture with redundant control planes option
- High port density with 10 Gigabit line cards available
- High reliability with fault-tolerant topologies ensures rock-solid connectivity, and D-Link Green™ technology provides eco-friendly power saving
- Redundant loadsharing power supplies and a hot-swappable fan module for mission-critical network applications

## Unified Wireless

- Managed switches which offer flexible deployment, one single device can manage both wired and wireless access traffic – unified switch = wireless controller + LAN switch
- Feature-rich centralised management for wireless Access Points (AP) and clients, including security policy and RF parameters
- Enables seamless wireless roaming without the need for cursor re-authentication: necessary in particular for Voice-over-WLAN (VoWLAN) applications
- Resiliency of the entire wireless network through self-healing and AP load balancing. The unified switch can effectively manage the wireless bandwidth, optimise WLAN traffic and ensure maximum RF coverage



## Chassis Switches

**DUAL CONTROLLER**

**SINGLE CONTROLLER**

DGS-6600 Series

## Concentrator Switches

**10 GIGABIT ETHERNET**

DXS-3600 Series

## Standalone Switches

<b>10 GIGABIT ETHERNET</b>	<b>UNMANAGED</b>	<b>SMART</b>	<b>SMART MANAGED</b>	<b>LAYER 2</b>	<b>LAYER 2+</b>	<b>LAYER 3</b>
<b>GIGABIT ETHERNET</b>	DGS-1000 Series	DXS-1100 Series	DXS-1210 Series	DGS-3000 Series	DGS-3420 Series	DGS-3620 Series
<b>FAST ETHERNET</b>	DGS-105/108 Series	DGS-1100 Series	DGS-1510 Series	DGS-3120 Series		
	DES-1000 Series	DGS-1210 Series		DES-3200 Series		
		DES-1210 Series				

## PoE Switches

<b>GIGABIT ETHERNET</b>	<b>UNMANAGED</b>	<b>SMART</b>	<b>SMART MANAGED</b>	<b>LAYER 2/2+</b>	<b>LAYER 3</b>
<b>FAST ETHERNET</b>	DGS-1008P (PoE+) DGS-1008MP (PoE+)	DGS-1100-08P DGS-1100-24P (PoE+)	DGS-1510-28P (PoE+) DGS-1510-28XMP (PoE+)	DGS-3120-24PC (PoE+) DGS-3120-48PC (PoE+)	DGS-3620-28PC (PoE+) DGS-3620-52P (PoE+)
		DGS-1210-10P (PoE+) DGS-1210-28P (PoE+) DGS-1210-52P (PoE+) DGS-1210-52MP (PoE+)		DGS-3420-28PC (PoE+) DGS-3420-52P (PoE+)	
	DES-1008PA	DES-1210-08P DES-1210-28P (PoE+)		DES-3200-28P (PoE+) DES-3200-52P (PoE+)	

# Power over Ethernet (PoE)

## What is Power over Ethernet (PoE)?

Power over Ethernet allows a single cable (usually referred to as a CAT5 cable) to provide both data connection and electrical power to any PoE-enabled devices such as wireless access points, network cameras or IP phones. PoE essentially passes electrical power along with data on Ethernet (LAN) cabling to compatible network devices, thereby negating the need for power outlets in proximity to the devices being powered.

With PoE you only need one cable for both power and data so wireless access points and Video Surveillance cameras, for example, can be installed without having to run power to inaccessible places such as ceilings or roof spaces. You can also protect such devices from outages, by adding a central Uninterruptible Power Supply (UPS), and both monitor and manage energy consumption centrally – perhaps even switching devices off when they're not needed. Support for PoE can be added to existing networks but, if you're serious about it, PoE-enabled switches don't need additional wiring and are easier to manage. Either way, check for support for industry standards, both on the switches and networking devices you want to power.

## What is PoE +

The original IEEE 802.3af-2003 PoE standard provides up to 15.4 W of DC power (minimum 44 V DC and 350 mA) to each device. Only 12.95 W is assured to be available at the powered device as some power is dissipated in the cable. The updated IEEE 802.3at PoE standard, also known as PoE+ or PoE plus, provides up to 25.5 W of power. PoE+ is beneficial for devices that require more power, such as Pan-Tilt-Zoom cameras, thin clients and video phones. It also expands PoE functionality to a wider range, making it possible to power a larger number of edge devices from a single PoE port.

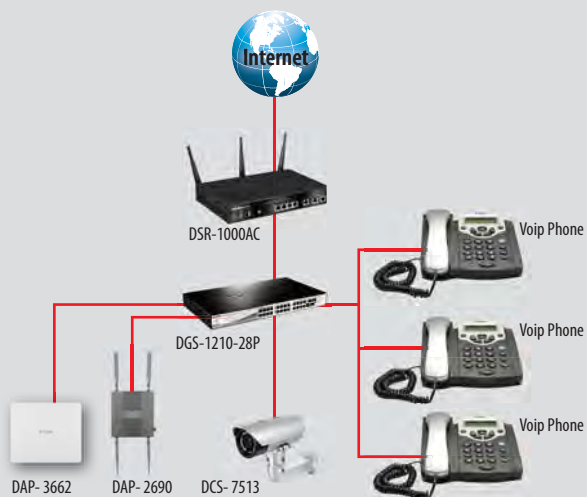
## How can PoE be Green?

Using D-Link's integrated time-based PoE functionality, it is possible to automatically shut down ports which also shut down the devices on a predefined schedule, saving power and money, and increasing security.

## What is the PoE Power Budget?

The PoE Power Budget is the maximum amount of power that a switch can provide to **all** the devices connected to it. If this is exceeded, then devices will not function correctly as they are not receiving adequate power. In order to choose the right switch, the overall power consumption for the network must be calculated. This can be done by adding up the maximum power demand of every device you intend to connect to the switch.

It is essential to consider the current and possible future power requirements of your network; over-specifying the power budget of a switch in the first instance will result in higher initial costs but could save time and money in the long run.



PoE devices can transmit a Discovery Protocol that informs the PoE Switch of the actual power required by the device. If the power is less than the default (15.4W for PoE or 25.5W for PoE+), the PoE switch acknowledges the request with its available power and modifies the power budget accordingly. If the requesting powered device exceeds the power budget for the switch, the port is either powered down, or the port remains in low-power mode.



## Benefits of PoE

### Reduced Costs

With PoE, only one cable – a simple CAT5 Ethernet cable – is required to be routed to each device instead of two (data *and* power), so fewer power adapters or outlets are needed. In large organisations this can bring a major cost reduction.

### Flexibility

A PoE-enabled appliance can be installed virtually anywhere, without the need for AC outlets. This provides flexibility and scalability in placing all the network equipment (switches, wireless access points, and IP cameras) in the most optimal locations instead of locations only where power is available. This also enables better network designs.

### Reliability

PoE infrastructure enables centralised power management that provides back-up with an Uninterruptable Power Supply (UPS) to the devices and all the distributed PD networking devices; even during power failures this ensures the reliability and availability of powered devices.

### Network Control

Network administrators can control and monitor devices using SNMP (Simple Network Management Protocol). Devices can be powered down when not in use or if there is unauthorised access, which allows for increased security.

### Add to, Move or Change the network

PoE-enabled switches enable network additions, moves and changes to be accomplished faster. They allow the network to be more flexible and accommodating to changing business and network requirements.

### Centralised Power Management

Managing a PoE-enabled switch via a web browser or by SNMP, enables remote networking devices to be easily reset or shut down, saving the time and expense of dispatching a technician.

### Security

Shutting down unnecessary PoE network devices when no one is at the office ensures better business security.

### Eco-Friendly

As with security, shutting down unnecessary PoE network devices can also save power and money for a business.

## Typical PoE Applications



### IP Cameras

There are several types of IP cameras – from a basic box camera to an outdoor pan, tilt and zoom (PTZ) to a heated dome camera, and each one has a different power requirement. Basic outdoor IP cameras have a power consumption of about 7 watts; however, additional features require additional power, so an outdoor PTZ device with IR night vision will require significantly more power than an indoor static device.



### IP Phones

IP phones are commonly connected and powered by PoE. A standard IP phone will consume around 4-7 watts of power whereas one with a backlit, colour screen or even video conferencing capability will use substantially more.



### Wireless Access Points

Due to their placements, wireless access points are typically powered using PoE, but different types of Wireless APs have different power requirements. For example, dual-band concurrent APs require more power as they broadcast on both the 2.4 and 5 GHz frequencies. The latest Wireless AC technology delivers wireless speeds of up to 1300 Mbps on the 5 GHz band with enhanced coverage so can benefit from PoE+'s additional power.

# Fast Ethernet Unmanaged Switches

The DES-1000 Series of Fast Ethernet Unmanaged Switches is designed for cost effective Small Office Home Office (SOHO) and workgroup connection. They use standard CAT5 copper twisted-pair wires as the network cable, and support full/half duplex operation for 10/100 Mbps speeds. These switches provide IEEE 802.3x flow control for reliable data transfer, and auto MDI/MDI-X to eliminate the need for cross-over cables, thus simplifying installation.

## DES-1000 Series

### Key Series Features

- Fanless
- IEEE 802.3x Flow Control
- Auto MDI/MDIX
- Plug-and-Play installation
- Quality of Service (QoS)

\*Functions Listed above are Model Dependent.



### DES-1005A



- 10/100BASE-TX ports x 5
- External power supply
- Desktop
- Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)

### DES-1008A



- 10/100BASE-TX ports x 8
- External power supply
- Desktop
- Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)

### DES-1005C



- 10/100BASE-TX ports x 5
- External power supply
- Desktop
- Fanless
- Energy-Efficient Ethernet (EEE)

### DES-1008C



- 10/100BASE-TX ports x 8
- External power supply
- Desktop
- Fanless
- Energy-Efficient Ethernet (EEE)

### DES-1016A



- 10/100BASE-TX ports x 16
- External power supply
- Desktop
- Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)

### DES-1024A



- 10/100BASE-TX ports x 24
- External power supply
- Desktop
- Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)

### DES-1016C



- 10/100BASE-TX ports x 16
- Internal power supply
- 11in, 1U desktop with rack-mountable kit
- Fanless
- Energy-Efficient Ethernet (EEE)

### DES-1024C



- 10/100BASE-TX ports x 24
- Internal power supply
- 11in, 1U desktop with rack-mountable kit
- Fanless
- Energy-Efficient Ethernet (EEE)

### DES-1016D



- 10/100BASE-TX ports x 16
- Internal power supply
- 11in, 1U desktop with rack-mountable kit
- Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)

### DES-1024D



- 10/100BASE-TX ports x 24
- Internal power supply
- 11in, 1U desktop with rack-mountable kit
- Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)

### DES-1008PA



- 10/100BASE-TX ports x 8
- Supports 802.3af PoE (Port 1 - 4)
- 58 W PoE Power Budget
- External power supply
- Desktop, Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)

### DES-1026G



- 10/100BASE-TX ports x 24
- 10/100/1000BASE-T/SFP Combo ports x 2
- 19in rack-mountable
- Fanless





MODEL		DES-1005A	DES-1008A	DES-1005C	DES-1008C	DES-1008PA
Interfaces	100BASE-TX (Fast Ethernet)	5	8	5	8	8
	Switching Capacity	1 Gbps	1.6 Gbps	1 Gbps	1.6 Gbps	1.6 Gbps
General Features	Max Packet Forwarding Rate	0.74 Mpps	1.19 Mpps	0.74 Mpps	1.19 Mpps	1.19 Mpps
	Packet Buffer Memory	48 KB	96 KB	96 KB	96 KB	96 KB
	MAC Address Table	2000	2000	2000	2000	2000
	Flow Control	IEEE 802.3x Flow Control				
	Jumbo Frame				2048 Bytes	2048 Bytes
Quality of Service (QoS)	Standard	802.1p				
	Number of Queues					
	Mode					
Power over Ethernet	Standard					
	PoE Ports					
	PoE Power Budget					
Physical and Environment	Power Supply	External				
	Power-Saving Technology	Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet (EEE)		Energy-Efficient Ethernet (EEE)		Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet (EEE)
	Number of Fans	0				
	Operating Temperature	0°C to 40°C		0°C to 40°C		0°C to 40°C
	Operating Humidity	10% to 90% RH Non-Condensing				
	Dimensions (W x D x H)	87 x 47.85 x 21.7 mm	141.5 x 78.5 x 23.8 mm	88 x 48 x 21.45 mm	131 x 54 x 21 mm	140 x 77 x 27 mm



MODEL		DES-1016C	DES-1024C	DES-1016D	DES-1024D	DES-1026G
Interfaces	100BASE-TX (Fast Ethernet)	16	24	16	24	24
	10/100/1000BASE-T/SFP Combo Slots					
General Features	Switching Capacity	3.2 Gbps	4.8 Gbps	3.2 Gbps	4.8 Gbps	8.8 Gbps
	Max Packet Forwarding Rate	2.38 Mpps	3.57 Mpps	2.38 Mpps	3.57 Mpps	6.54 Mpps
	Packet Buffer Memory	256 KB	256 KB	2 Mbits	2 Mbits	512 KB
	MAC Address Table	8000	8000	8000	8000	8000
	Flow Control	IEEE 802.3x Flow Control				
Quality of Service (QoS)	Jumbo Frame	9216 Bytes	9216 Bytes			10k Bytes
	Standard	802.1p	802.1p	802.1p	802.1p	
	Number of Queues	4	4	4	4	
	Mode	Strict	Strict	Strict	Strict	
Physical and Environment	Power Supply	Internal				
	Power-Saving Technology	IEEE 802.3az Energy-Efficient Ethernet (EEE)		Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet (EEE)		
	Number of Fans	0				
	Operating Temperature	0°C to 40°C				
	Operating Humidity	10% to 90% RH Non-Condensing				
	Dimensions (W x D x H)	282.2 x 151 x 44.5 mm	282.2 x 151 x 44.5 mm	280 x 210 x 44 mm	280 x 125.8 x 44 mm	440 x 140 x 44 mm



MODEL		DES-1016A	DES-1024A
Interfaces	100BASE-TX (Fast Ethernet)	16	24
	Switching Capacity	3.2 Gbps	4.8 Gbps
General Features	Max Packet Forwarding Rate	2.38 Mpps	3.57 Mpps
	Packet Buffer Memory	2 Mbits	2.5 Mbits
	MAC Address Table	8000	8000
	Flow Control	IEEE 802.3x Flow Control	
	Jumbo Frame	802.1p	
Quality of Service (QoS)	Number of Queues	2	
	Mode	Strict	
	Power Supply	External	
Physical and Environment	Power-Saving Technology	Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet (EEE)	
	Number of Fans	0	
	Operating Temperature	0°C to 40°C	
	Operating Humidity	10% to 90% RH Non-Condensing	
	Dimensions (W x D x H)	155.7 x 122 x 41 mm	231 x 158 x 46 mm

# Gigabit Unmanaged Switches

The DGS-1000 Series consists of Unmanaged Gigabit Switches designed for cost-effective Small Office Home Office (SOHO) and workgroup connection. They support full duplex operation, provide IEEE 802.3x flow control for reliable data transfer, and auto MDI/MDIX to eliminate the need for cross-over cables, thus simplifying installation. They make use of D-Link Green™ technology, too, which reduces power consumption and provides a longer product life without sacrificing operational performance or functionality. Recyclable packaging and minimised use of harmful substances (RoHS compliant) make this switch series truly environmentally friendly since it also complies with the Energy-Efficient Ethernet standard.

## Key Series Features

- Power savings by link status
- Power savings by cable length detection
- Jumbo frame
- IEEE 802.3x Flow Control
- Auto MDI/MDIX
- Quality of Service (QoS)
- Cable diagnostics

\*Functions Listed above are Model Dependent.

## DGS-1000 Series

### DGS-1005A



- 10/100/1000BASE-T ports x 5
- External power supply
- Desktop
- Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)

### DGS-1008A



- 10/100/1000BASE-T ports x 8
- External power supply
- Desktop
- Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)

### DGS-1005C



- 10/100/1000BASE-T ports x 5
- External power supply
- Desktop
- Fanless
- Energy-Efficient Ethernet (EEE)

### DGS-1008C



- 10/100/1000BASE-T ports x 8
- External power supply
- Desktop
- Fanless
- Energy-Efficient Ethernet (EEE)

### DGS-1008P



- 10/100/1000BASE-T ports x 8
- Supports 802.3af PoE & 802.3at PoE+ (Port 1-4)
- 68 W PoE Power Budget
- External Power Supply
- Desktop, Fanless, D-Link Green™ & Energy-Efficient Ethernet (EEE)

### DGS-1008MP



- 10/100/1000BASE-T PoE ports x 8
- Supports 802.3af PoE & 802.3at PoE+
- 140 W PoE Power Budget
- Internal Power Supply, Fanless
- Desktop with rack-mountable kit
- D-Link Green™ & Energy-Efficient Ethernet (EEE)

### DGS-1016A



- 10/100/1000BASE-T ports x 16
- External power supply
- Desktop
- Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)

### DGS-1024A



- 10/100/1000BASE-T ports x 24
- External power supply
- Desktop
- Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)

### DGS-1016C



- 10/100/1000BASE-T ports x 16
- Internal Power Supply
- 11in, 1U desktop with rack-mountable kit
- Fanless
- Energy-Efficient Ethernet (EEE)

### DGS-1024C



- 10/100/1000BASE-T ports x 24
- Internal Power Supply
- 11in, 1U desktop with rack-mountable kit
- Fanless
- Energy-Efficient Ethernet (EEE)

### DGS-1016D



- 10/100/1000BASE-T ports x 16
- Internal Power Supply
- 11in, 1U desktop with rack-mountable kit
- Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)

### DGS-1024D



- 10/100/1000BASE-T ports x 24
- Internal Power Supply
- 11in, 1U desktop with rack-mountable kit
- Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)

## DGS-105/108 Series

### DGS-105



- 10/100/1000BASE-T ports x 5
- Robust metal product housing
- Cable diagnostics function
- Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)







### DGS-108











- 10/100/1000BASE-T ports x 8
- Robust metal product housing
- Cable diagnostics function
- Fanless
- D-Link Green™ & Energy-Efficient Ethernet (EEE)





								
MODEL		DGS-1005A	DGS-1008A	DGS-1005C	DGS-1008C	DGS-1008P	DGS-1008MP	
Interfaces	1000BASE-T (Gigabit)	5	8	5	8	8	8	
General Features	Switching Capacity	10 Gbps	16 Gbps	10 Gbps	16 Gbps	16 Gbps	16 Gbps	
	Max Packet Forwarding Rate	7.44 Mpps	11.9 Mpps	7.44 Mpps	11.9 Mpps	11.9 Mpps	11.9 Mpps	
	Packet Buffer Memory	128 KB	128 KB	256 KB	256 KB	256 KB	128 KB	
	MAC Address Table	2000	8000	2000	8000	8000	8000	
	Flow Control	IEEE 802.3x Flow Control						
	Jumbo Frame	9216 Bytes	9216 Bytes	9216 Bytes	9216 Bytes	9216 Bytes	9216 Bytes	
Quality of Service (QoS)	Standard	802.1p	802.1p	802.1p	802.1p	802.1p, DSCP		
	Number of Queues	4	4	4	4	4		
	Mode	Strict	Strict	Strict	Strict	Strict		
Power over Ethernet	Standard					802.3af (PoE) 802.3at (PoE+)	802.3af (PoE) 802.3at (PoE+)	
	PoE Ports					4	8	
	PoE Power Budget					68 W	140 W	
Physical and Environment	Power Supply	External				Internal		
	Power-Saving Technology	Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet (EEE)		IEEE 802.3az Energy-Efficient Ethernet (EEE)		Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet (EEE)		
	Number of Fans	0						
	Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	
	Operating Humidity	10% to 90% RH Non-Condensing				0% to 95% RH Non-Condensing		5% to 90% RH Non-Condensing
	Dimensions (W x D x H)	91 x 73 x 22 mm	131 x 82 x 22 mm	106 x 87 x 21.45mm	151.2 x 96 x 22 mm	190 x 120 x 38 mm	280 x 180 x 44 mm	

							
MODEL		DGS-1016A	DGS-1024A	DGS-1016C	DGS-1024C	DGS-1016D	DGS-1024D
Interfaces	1000BASE-T (Gigabit)	16	24	16	24	16	24
General Features	Switching Capacity	32 Gbps	48 Gbps	32 Gbps	48 Gbps	32 Gbps	48 Gbps
	Max Packet Forwarding Rate	23.81 Mpps	35.71 Mpps	23.81 Mpps	35.71 Mpps	23.81 Mpps	35.71 Mpps
	Packet Buffer Memory	2 Mbits	3.5 Mbits	256 KB	512 KB	512 KB	512 KB
	MAC Address Table	8000	16000	8000	16000	8000	8000
	Flow Control	IEEE 802.3x Flow Control					
	Jumbo Frame	9600 Bytes	9600 Bytes	9216 Bytes	9216 Bytes	9216 Bytes	9600 Bytes
Quality of Service (QoS)	Standard			802.1p	802.1p	802.1p	802.1p
	Number of Queues			8	8	4	4
	Mode			Strict	Strict	Strict	Strict
Power over Ethernet	Standard						
	PoE Ports						
	PoE Power Budget						
Physical and Environment	Power Supply	External		Internal			
	Power-Saving Technology	Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet (EEE)		IEEE 802.3az Energy-Efficient Ethernet (EEE)		Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet (EEE)	
	Number of Fans	0					
	Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C
	Operating Humidity	5% to 90% RH Non-Condensing		10% to 90% RH Non-Condensing		5% to 90% RH Non-Condensing	
	Dimensions (W x D x H)	231 x 158 x 46 mm	257 x 178 x 46 mm	282.2 x 178 x 44.5 mm	282.2 x 178 x 44.5 mm	280 x 180 x 44 mm	280 x 180 x 44 mm

			
MODEL		DGS-105	DGS-108
Interfaces	1000BASE-T (Gigabit)	5	8
General Features	Switching Capacity	10 Gbps	16 Gbps
	Max Packet Forwarding Rate	7.44 Mpps	11.9 Mpps
	Packet Buffer Memory	128 KB	
	MAC Address Table	2000	8000
	Flow Control	IEEE 802.3x Flow Control	
	Jumbo Frame	9216 Bytes	
Quality of Service (QoS)	Standard	IEEE 802.1p	
	Number of Queues	4 Queues	
	Mode	Strict	
Physical and Environment	Power Supply	External	
	Power-Saving Technology	Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet (EEE)	
	Number of Fans	0	
	Operating Temperature	0°C to 40°C	
	Operating Humidity	10% to 90% RH Non-Condensing	
	Dimensions (W x D x H)	100 x 98 x 28 mm	162 x 102 x 28 mm

# Layer 2 Lite Gigabit EasySmart Switches

## DGS-1100 Series

D-Link's DGS-1100 Series provides an affordable solution for small offices, home offices and small and medium businesses as well as enterprise deployment, anywhere in fact that requires simple installation and easy network management. Each model comes in a compact desktop-sized metal case and features either 8, 16+2 SFP, 24+2 SFP, or 8 PoE and 24 with 12 PoE-enabled Gigabit ports. Compliant with IEEE802.3az Energy Efficient Ethernet, these switches consume less energy by cutting down on power consumption when port utilisation is low. By deploying EEE devices, users can cut operating costs and even cut down on necessary cooling equipment, helping small and medium-sized businesses stay within their budgets. The DGS-1100 Series also features D-Link Green™ Technology to help save energy automatically by monitoring the link status of every port and drastically reducing power consumption when a port link is down.



## Principle Product Features

### DGS-1100-08

- 10/100/1000BASE-T ports x 8

### DGS-1100-18

- 10/100/1000BASE-T ports x 16
- SFP ports x 2

### DGS-1100-26

- 10/100/1000BASE-T ports x 24
- SFP ports x 2

### DGS-1100-08P

- 10/100/1000BASE-T PoE ports x 8
- 802.3af PoE Support
- 64 W PoE Power Budget






### DGS-1100-24P

- 10/100/1000BASE-T PoE ports x 12
- 10/100/1000BASE-T ports x 12
- 802.3af (PoE) and 802.3at (PoE+) support
- 100 W PoE power budget

## Key Series Features

- Basic configurable options
- 11in metal case. Comes with mounting kit to install in 19in racks (except DGS-1100-08/08P)
- Improved resilience, longer MTBF (Mean Time Between Failures)
- VLAN support for traffic segmentation
- Auto surveillance VLAN for easy integration with IP-based surveillance systems
- Loopback Detection (LBD) and Broadcast Storm Control to avoid network downtime
- Quality of Service (QoS) and Bandwidth Control to ensure smooth operation
- Cable diagnostics function to help troubleshoot wiring problems
- Web-based GUI or SmartConsole / Network Assistant utility
- 802.3az Energy Efficient Ethernet (EEE) compliant



						
MODEL		DGS-1100-08	DGS-1100-08P	DGS-1100-18	DGS-1100-24P	DGS-1100-26
Interfaces	Fast Ethernet					
	Gigabit Ethernet	8	8 (PoE)	16	12 (PoE) + 12	24
	SFP Slots	2				
General Features	Stackability					
	Stacking Speed					
	Switching Capacity	16 Gbps	16 Gbps	36 Gbps	48 Gbps	52 Gbps
	Max Packet Forwarding Rate	11.9 Mpps	11.9 Mpps	26.79 Mpps	35.71 Mpps	38.69 Mpps
	Packet Buffer Memory	2 Mbits	2 Mbits	1.5 Mbits	512 Kbits	1.5 Mbits
	MAC Address Table	8000	8000	16000	8000	16000
	Flow Control	IEEE 802.3x Flow Control, HOL Blocking Prevention				
L2 Features	Jumbo Frame	9216 Bytes				
	Loop Protection			802.1D, 802.1w		
	803.2ad Link Aggregation	2 Groups; 2-4 Ports per Group		9 Groups 8 Ports per Group	12 Groups 8 Ports per Group	13 Groups 8 Ports per Group
	Port Mirroring	One-to-One, Many-to-One				
	Loopback Detection	•				
Virtual LAN (VLAN)	Cable Diagnostics	•				
	VLANs	32 Static		128 Static		
	GVRP					
	Protocol VLAN (802.1v)					
	Double VLAN (Q-in-Q)					
	Auto Voice VLAN	•				
Layer 2 Multicasting	Auto Surveillance VLAN	•				
	Groups	32		64		
	Protocols	IGMP Snooping v1 / v2		IGMP Snooping v1 / v2 / v3 awareness		
Quality of Service (QoS)	Standard	802.1p				
	Number of Queues	4				
	Mode	Strict / WRR				
	CoS Handling	Switch Port				
	Bandwidth Control	Port-Based (Ingress/Egress, min. granularity 8 kbps)		Port-Based (Ingress/Egress, min. granularity 64 kbps)		
Security	STP Security					
	Port Security	•				
	DoS Attack Prevention			•		
	Storm Control	Broadcast / Multicast / Unicast				
	IP-MAC-Port Binding					
	DHCP Server Screening					
	ARP Spoofing Prevention					
	Traffic Segmentation			•		
Authentication, Authorisation and Accounting (AAA)	D-Link SafeGuard Engine	•				
	802.1x Authentication					
Access Control Lists (ACL)	ACL Handling					
	Standard			802.3af (PoE)	802.3af (PoE)	802.3at (PoE+)
Power over Ethernet	PoE Ports	8		12		
	PoE Power Budget	64 W		100 W		
	Time-Based PoE	•				
	Switch Access	Web GUI				
Management	sFlow					
	SNMP			v1 / v2c		
	DHCP	Client				
	RMON					
	TFTP Client	•				
	Syslog	•				
Physical and Environment	Power Supply	External		Internal		
	Maximum Power Consumption	4.89W	78.8 W	14.88 W	128.32 W	19.04 W
	Power-Saving Technology	Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet				
	Operating Temperature	0°C to 40°C		-5°C to 50°C		
	Operating Humidity	10% to 95% RH Non-Condensing		0% to 95% RH Non-Condensing		
	Dimensions (W x D x H)	171 x 98 x 28 mm	190 x 120 x 38 mm	280 x 180 x 44 mm	280 x 230 x 44 mm	280 x 180 x 44 mm
	Mean Time Between Failures (MTBF)	503,585 Hours	708,219 Hours	2,671,256 Hours	563,292 Hours	2,277,645 Hours
Modules / Transceivers	SFP Transceivers DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712					



# Layer 2 Lite 10 Gigabit Ethernet EasySmart Switches

## DXS-1100 Series

The DXS-1100 Series provides an entry-level solution for Small and Medium Businesses wishing to deploy 10 Gigabit Ethernet. It is ideal for server farms or as a network aggregation device and provides a cost-effective but feature-rich solution to 10 Gigabit Ethernet requirements. The DXS-1100 Series is equipped with advanced security features such as Static MAC, Storm Control and IGMP Snooping. Static MAC allows users to create a MAC whitelist for specific ports, helping administrators limit network access to authorized devices only. Storm Control monitors broadcast, multicast, or unknown unicast traffic and will start blocking or discarding packets which could flood the network when the defined threshold is exceeded. IGMP Snooping is able to reduce the loading of L3 multicast routers and save bandwidth in network throughput. The DXS-1100 Series integrate basic configurable functions that provide performance and scalability with an easy-to-use web interface to help users deploy their network quickly and easily.



## Principle Product Features

### DXS-1100-10TS

- 10GBASE-T ports x 8
- 10 Gigabit SFP+ ports x 2

### DXS-1100-12TC

- 10GBASE-T ports x 12
- 10 Gigabit SFP+ ports x 2
- 10GBASE-T/SFP+ Combo ports x 2

## Optional Accessories

### Optional 10 Gbps SFP+ Direct Attach Cables

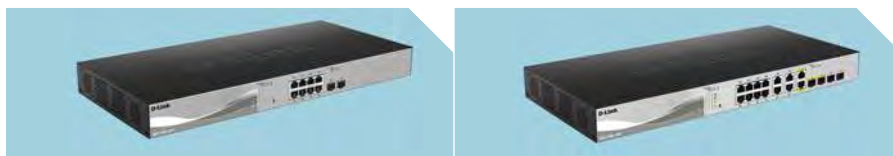
DEM-CB100S	10 Gigabit SFP+ 1 m Direct Attach Cable
DEM-CB300S	10 Gigabit SFP+ 3 m Direct Attach Cable
DEM-CB700S	10 Gigabit SFP+ 7 m Direct Attach Cable

## Key Series Features

- Port Security
- D-Link Safeguard Engine
- ARP Spoofing Prevention
- Auto Surveillance VLAN
- Voice VLAN
- Port Mirroring
- Bandwidth Control
- Traffic Segmentation
- 802.1p Priority Queue Mapping
- Web-based GUI or D-Link Network Assistant utility

## What does Link Aggregation mean?

Link aggregation combines (aggregates) multiple network connections in parallel in order to increase throughput beyond what a single connection could sustain, and provides redundancy should one of the links fail. Combining can occur such that multiple interfaces share one logical address (IP) or one physical address (MAC address), or it allows each interface to have its own address. A logical connection requires that both ends of a link use the same aggregation method, but has performance advantages over the physical connection method.



MODEL		DXS-1100-10TS	DXS-1100-16TC
Interfaces	10GBASE-T	8	12
	10 Gigabit SFP+ Slot	2	2
	10GBASE-T/SFP+ Combo		2
General Features	Stackability		
	Stacking Speed		
	Switching Capacity	200 Gbps	320 Gbps
	Max Packet Forwarding Rate	148.81 Mpps	238.095 Mpps
	Packet Buffer Memory	2 Mbps	
	MAC Address Table	16000	
	Flow Control	IEEE 802.3x Flow Control, HOL Blocking Prevention	
L2 Features	Jumbo Frame	9000 Bytes	
	Loop Protection	802.1D, 802.1w	
	803.2ad Link Aggregation	5 Groups, 4 Ports per Group	
	Port Mirroring	One-to-One, Many-to-One, Mirroring for Tx/Rx/Both	
Virtual LAN (VLAN)	Loopback Detection	•	
	Cable Diagnostics	•	
	VLANs	128 Static	
	GVRP		
	Protocol VLAN (802.1v)		
Multicasting	Double VLAN (Q-in-Q)		
	Auto Voice VLAN	•	
Quality of Service (QoS)	Auto Surveillance VLAN	•	
	Groups	512	
	Protocols	IGMP Snooping v1 / v2 / v3 awareness, MLD Snooping v1 / v2 awareness	
Security	Standard	802.1p, DSCP	
	Number of Queues	8	
	Mode	Strict / WRR	
	CoS Handling	802.1p Priority	
	Bandwidth Control	Port-Based (Ingress/Egress, min. granularity 64 kbps)	
Authentication, Authorisation and Accounting (AAA)	STP Security	Root Restriction	
	Port Security	•	
	DoS Attack Prevention	•	
	Storm Control	Broadcast / Multicast / Unicast	
	IP-MAC-Port Binding		
	DHCP Server Screening		
Access Control Lists (ACL)	ARP Spoofing Prevention	•	
	D-Link SafeGuard Engine	•	
Management	802.1x Authentication		
	Switch Access	Web GUI	
	sFlow		
	SNMP	v1 / v2c / v3	
	DHCP	Client	
	RMON	v1 / v2	
	TFTP Client	•	
Syslog	•		
Physical and Environment	Power Supply	Internal	
	Maximum Power Consumption	50.9 W	84.1 W
	Power-Saving Technology	Green Ethernet	
	Operating Temperature	-5°C to 50°C	
	Operating Humidity	0% to 95% RH Non-Condensing	
	Dimensions (W x D x H)	441 x 210 x 44 mm	441 x 210 x 44 mm
Modules / Transceivers	Mean Time Between Failures (MTBF)	585,959 Hours	489,221 Hours
	10 Gigabit SFP+ Transceivers	DEM-431XT, DEM-431XT-DD, DEM-432XT, DEM-432XT-DD, DEM-433XT, DEM-433XT-DD, DEM-434XT, DEM-436XT-BXD, DEM-436XT-BXU	
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712	

# Layer 2 Fast Ethernet WebSmart Switches

## DES-1210 Series

The DES-1210 Series provides 8, 24 or 48 Fast Ethernet ports, with optional Gigabit and combo Gigabit/SFP ports, so has all the features needed in a small- or medium-sized business, without the complexity or cost. The built-in web interface and PC-based SmartConsole Utility make these switches easy to deploy, configure and troubleshoot and the complete set of features allows for seamless integration in any business environment.

The PoE option is available on the 8- and 24-port members of the family and includes power-saving technologies such as time-based PoE, which allows the power to be shut off at a predetermined time, saving power on VoIP phones, wireless access points or any other PoE equipment. Furthermore, the DES-1210-28P incorporates a Smart Fan feature, automatically turning on the system fans only when necessary. This not only saves energy and cost but also extends the lifespan of the switch. The DES-1210-28P is also compliant with the PoE+ standard, enabling it to feed up to 30 Watts to connected PoE devices.



### Principle Product Features

#### DES-1210-08P

- 10/100BASE-TX PoE ports x 8
- 802.3af PoE support
- 72 W PoE power budget

#### DES-1210-28

- 10/100BASE-TX ports x 24
- 10/100/1000BASE-T ports x 2
- 10/100/1000BASE-T/SFP Combo ports x 2

#### DES-1210-28P

- 10/100BASE-TX PoE ports x 24
- 10/100/1000BASE-T ports x 2
- 10/100/1000BASE-T/SFP Combo ports x 2
- 802.3af (PoE) and 802.3at (PoE+) support
- 193 W PoE power budget
- Port 1 - 4: Up to 30W
- Port 5 - 24: Up to 15.4W

#### DES-1210-52

- 10/100BASE-TX ports x 48
- 10/100/1000BASE-T ports x 2
- 10/100/1000BASE-T/SFP Combo ports x 2

### Optional Accessories

Optional Management Software  
DV-700 D-View 7 Network Management System

### Key Series Features

- Internet Group Management Protocol (IGMP) snooping
- 802.1Q tagged Virtual LAN (VLAN)
- Auto Surveillance VLAN (ASV)
- Asymmetric VLAN
- Auto Voice VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- 802.1X Access Control
- Broadcast/multicast/unicast storm control
- D-Link SafeGuard Engine
- DHCP server screening
- ARP spoofing prevention
- Web-based GUI
- Simple Network Management Protocol (SNMP)



### What speed does Ethernet run at?

Ethernet interfaces are referred to as 10BASE-T (Ethernet), 100BASE-TX (Fast Ethernet), 1000BASE-T (Gigabit Ethernet) and 10GBASE-T (10 Gigabit Ethernet.) Each standard represents a 10-fold increase in data transfer speed, from 10BASE-T (10 million bits per second) up to 10GBASE-T (10 thousand million bits per second). Don't forget that eight bits equals one byte...





MODEL		DES-1210-08P	DES-1210-28	DES-1210-28P	DES-1210-52
Interfaces	Fast Ethernet	8 (PoE)	24	24 (PoE)	48
	Gigabit Ethernet		2	2	2
	10/100/1000BASE-T/SFP Combo Slots		2	2	2
General Features	Stackability				
	Stacking Speed				
	Switching Capacity	1.6 Gbps	12.8 Gbps	12.8 Gbps	17.6 Gbps
	Max Packet Forwarding Rate	1.19 Mpps	9.5 Mpps	9.5 Mpps	13.1 Mpps
	Packet Buffer Memory	4.1 Mbits			13.1 Mbits
	MAC Address Table	8000	8000	8000	16000
	Flow Control	IEEE 802.3x Flow Control, HOL Blocking Prevention			
	Jumbo Frame	9000 Bytes			
L2 Features	Loop Protection	802.1D, 802.1w			
	803.2ad Link Aggregation	4 Groups 8 Ports per Group	8 Groups 8 Ports per Group	8 Groups 8 Ports per Group	16 Groups 8 Ports per Group
	Port Mirroring	One-to-One, Many-to-One, Mirroring for Tx/Rx/Both			
	Loopback Detection	•			
	Cable Diagnostics	•			
Virtual LAN (VLAN)	VLANs	256 Static			
	GVRP				
	Protocol VLAN (802.1v)				
	Double VLAN (Q-in-Q)				
	Auto Voice VLAN	•			
Layer 2 Multicasting	Auto Surveillance VLAN	•			
	Groups	256			
Quality of Service (QoS)	Protocols	IGMP Snooping v1 / v2 / v3 awareness, MLD Snooping v1 / v2			
	Standard	802.1p, DSCP			
	Number of Queues	8			
	Mode	Strict / WRR			
	CoS Handling	802.1p Priority Queue, DSCP, ToS, TCP/UDP Port, IPv6 Traffic Class			
Security	Bandwidth Control	Port-Based (Ingress/Egress, min. granularity 64 kbps)			
	STP Security	Root Restriction			
	Port Security	•			
	DoS Attack Prevention	•			
	Storm Control	Broadcast / Multicast / Unicast			
	IP-MAC-Port Binding	Smart IP-MAC-Port Binding			
	DHCP Server Screening	•			
	ARP Spoofing Prevention	•			
	Traffic Segmentation	•			
	D-Link SafeGuard Engine	•			
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based			
	Web-based Access Control (WAC)				
	MAC-based Access Control (MAC)				
	Network Access Protection (NAP)				
	Guest VLAN	•			
Access Control Lists (ACL)	Switch Access	RADIUS			
	Rules	Ingress ACL: 50 Profiles, 1280 Rules			
	ACL Handling	802.1p Priority, VLAN ID, MAC, IPv4/v6 Address, Ether Type, IPv6 Traffic Class, DSCP, LLC Mask, Protocol Type, TCP/UDP Port			
Power over Ethernet	Time-Based ACL				
	Standard	802.3af (PoE)		802.3af (PoE), 802.3at (PoE+)	
	PoE Ports	8		802.3af (PoE): 20 802.3at (PoE+): 4	
	PoE Power Budget	72 W		193 W	
Management	Time-Based PoE	•			
	Switch Access	Web GUI, Telnet (Compact CLI)			
	sFlow				
	SNMP	v1 / v2c / v3			
	DHCP	Client			
	RMON	v1			
	TFTP Client	•			
Syslog	•				
Physical and Environment	Power Supply	Internal			
	Maximum Power Consumption	84.9 W	9.46 W	240 W	14.77 W
	Power Saving Technology	Green Ethernet			
	Operating Temperature	-5°C to 45°C	-5°C to 50°C	-5°C to 50°C	-5°C to 50°C
	Operating Humidity	5% to 95% RH Non-Condensing			
	Dimensions (W x D x H)	190 x 120 x 38 mm	330 x 180 x 44 mm	440 x 210 x 44 mm	440 x 210 x 44 mm
Modules/ Transceivers	Mean Time Between Failures (MTBF)	656,745 Hours	330,182 Hours	244,140 Hours	429,482 Hours
	SFP Transceivers	DEM-210, DEM-211, DEM-220T, DEM-220R, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712			

# Layer 2 Gigabit WebSmart Switches

## DGS-1210 Series

The DGS-1210 Layer 2 Gigabit WebSmart Switches are the latest generation to feature D-Link's Green 3.0 Technology, which offers a high level of energy saving and efficiency as they also comply with the IEEE 802.3az Energy Efficient Ethernet standard. By offering multiple management options, the WebSmart Switches allow quick deployment, infrastructure expansion and seamless function upgrades, and with full support for IPv6 management and configurations, this latest range will ensure your network remains protected after the upgrade from IPv4 to IPv6. Built for small- and medium-sized businesses, the DGS-1210 Series Layer 2 Gigabit WebSmart Switches provide functionality, security, and manageability for a fraction of the standard cost of ownership.



Four switches in the DGS-1210 range offer power-budget PoE for businesses looking to power VoIP phones, wireless access points or network cameras. The 8-port DGS-1210-10P offers up to 30 W on any of its eight ports, whereas the Smart PoE+ DGS-1210-28P, DGS-1210-52P and DGS-1210-52MP provide 24 or 48 PoE-enabled ports, a power budget of 193 W/370 W, and four or eight ports supporting up to 30 W each at the PoE+ standard. The design allows plenty of flexibility in power allocation for a variety of powered devices but still offers affordable installation costs.

### Key Series Features

- Internet Group Management Protocol (IGMP) snooping
- Loopback Detection (LBD)
- Cable diagnostics
- 802.1Q Virtual LAN (VLAN)
- Auto Surveillance VLAN (ASV)
- Asymmetric VLAN
- Auto Voice VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- 802.1X Access Control
- Port security
- Broadcast/multicast/unicast storm control
- D-Link Safeguard Engine
- DHCP server screening
- ARP spoofing prevention
- Web-based GUI
- Simple Network Management Protocol (SNMP)



### Principle Product Features

#### DGS-1210-10

- 10/100/1000BASE-T ports x 8
- SFP ports x 2

#### DGS-1210-10P

- 10/100/1000BASE-T PoE ports x 8
- SFP ports x 2
- 802.3af (PoE) and 802.3at (PoE+) support
- 78 W PoE power budget

#### DGS-1210-20

- 10/100/1000BASE-T ports x 16
- SFP ports x 4

#### DGS-1210-28

- 10/100/1000BASE-T ports x 24
- SFP ports x 4

#### DGS-1210-28P

- 10/100/1000BASE-T PoE ports x 24
- SFP ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 193 W PoE power budget
- Port 1 - 4: Up to 30W
- Port 5 - 24: Up to 15.4W

#### DGS-1210-52

- 10/100/1000BASE-T ports x 48
- SFP ports x 4

#### DGS-1210-52P

- 10/100/1000BASE-T PoE ports x 24
- 10/100/1000BASE-T ports x 24
- SFP ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 193 W PoE power budget
- Port 1 - 8: Up to 30W
- Port 9 - 24: Up to 15.4W

#### DGS-1210-52MP

- 10/100/1000BASE-T PoE ports x 48
- SFP ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget
- Port 1 - 8: Up to 30W
- Port 9 - 48: Up to 15.4W

### Optional Accessories

Optional Management Software  
DV-700 D-View 7 Network Management System

MODEL		DGS-1210-10	DGS-1210-10P	DGS-1210-20	DGS-1210-28	DGS-1210-28P	DGS-1210-52	DGS-1210-52P	DGS-1210-52MP		
Interfaces	Fast Ethernet										
	Gigabit Ethernet	8	8 (PoE)	16	24	24 (PoE)	48	24 (PoE) + 24	48 (PoE)		
	10/100/1000BASE-T/SFP Combo Slots										
	SFP Slots	2	2	4	4	4	4	4	4		
General Features	Stackability										
	Stacking Speed										
	Switching Capacity	20 Gbps	20 Gbps	40 Gbps	56 Gbps	56 Gbps	104 Gbps	104 Gbps	104 Gbps		
	Max Packet Forwarding Rate	14.88 Mpps	14.88 Mpps	29.8 Mpps	41.7 Mpps	41.7 Mpps	77.4 Mpps	77.4Mpps	77.4 Mpps		
	Packet Buffer Memory	1.5 MB					3 MB				
	MAC Address Table	16,000									
	Flow Control	IEEE 802.3x Flow Control, HOL Blocking Prevention									
Jumbo Frame	9216 Bytes										
Layer 2 Features	Loop Protection	802.1D, 802.1w									
	803.2ad Link Aggregation	5 Groups 8 Ports per Group			10 Groups 8 Ports per Group		14 Groups 8 Ports per Group			26 Groups 8 Ports per Group	
	Port Mirroring	One-to-One, Many-to-One, Mirroring for Tx/Rx/Both									
	Loopback Detection	•									
	Cable Diagnostics	•									
Virtual LAN (VLAN)	VLANs	256 Static									
	GVRP										
	Protocol VLAN (802.1v)										
	Double VLAN (Q-in-Q)										
	Auto Voice VLAN	•									
	Auto Surveillance VLAN	•									
Layer 2 Multicasting	Groups	256									
	Protocols	IGMP Snooping v1/ v2 / v3 awareness, MLD Snooping v1 / v2									
Quality of Service (QoS)	Standard	802.1p, DSCP									
	Number of Queues	8									
	Mode	Strict / WRR									
	CoS Handling	802.1p Priority Queue, DSCP, ToS, IPv6 Traffic Class, TCP/UDP Port									
	Bandwidth Control	Port-Based (Ingress/Egress, min. granularity 64 kbps)									
Security	STP Security	Root Restriction									
	Port Security	•									
	DoS Attack Prevention	•									
	Storm Control	Broadcast / Multicast / Unicast									
	IP-MAC-Port Binding	Smart IP-MAC-Port Binding									
	DHCP Server Screening	•									
	ARP Spoofing Prevention	•									
	Traffic Segmentation	•									
	D-Link SafeGuard Engine	•									
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based									
	Web-Based Access Control (WAC)										
	MAC-Based Access Control (MAC)										
	Network Access Protection (NAP)										
	Guest VLAN										
Access Control Lists (ACL)	Switch Access	RADIUS									
	Rules	Ingress ACL: 50 Profiles, 768 Rules									
	ACL Handling	802.1p Priority, VLAN ID, MAC, IP Address, Ether Type, IPv6 Traffic Class, DSCP, Protocol Type, TCP/UDP Port									
Power over Ethernet	Standard		802.3af (PoE) 802.3at (PoE+)			802.3af (PoE) 802.3at (PoE+)		802.3af (PoE) 802.3at (PoE+)	802.3af (PoE) 802.3at (PoE+)		
	PoE Ports		8			802.3af (PoE): 20 802.3at (PoE+): 4		802.3af (PoE): 16 802.3at (PoE+): 8	802.3af (PoE): 40 802.3at (PoE+): 8		
	PoE Power Budget		78 W			193 W		193 W	370 W		
	Time-Based PoE		•			•		•	•		
Management	Switch Access	Web GUI, Telnet (Compact CLI)									
	sFlow										
	SNMP	v1 / v2c / v3									
	DHCP	Client									
	RMON	v1									
	TFTP Client	•									
Physical and Environment	Syslog	•									
	Power Supply	Internal									
	Maximum Power Consumption	13.59 W	103.4 W	16.09 W	22.45 W	251.3 W	38.27 W	270.2 W	483.1 W		
	Power-Saving Technology	Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet									
	Mean Time Between Failures (MTBF)	360,844 Hours	315,336 Hours	317,412 Hours	540,000 Hours	239,236 Hours	481,624 Hours	220,722 Hours	318,616 Hours		
	Operating Temperature	-5°C to 50°C									
Operating Humidity	0% to 95% RH Non-Condensing										
Dimensions (W x D x H)	280 x 126 x 44 mm	280 x 180 x 44 mm	280 x 180 x 44 mm	440 x 140 x 44 mm	440 x 210 x 44 mm	440 x 210 x 44 mm	440 x 210 x 44 mm	440 x 430 x 44 mm	440 x 430 x 44 mm		
Modules/ Transceivers	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712									



# Layer 2 10 Gigabit Ethernet WebSmart Switches

## DXS-1210 Series

D-Link's DXS-1210 Series 10 Gigabit Ethernet Smart Switches are a cost effective 10 GbE switch series capable of servicing a range of network needs in any business. Supporting 10GBASE-T/SFP+ combo ports, they provide connection flexibility across a network allowing easier network integration. With high performance and low latency the DXS-1210 Series can fulfil the needs for virtualisation, cloud services and server-to-server applications making it perfect for SMB customers. They provide a more flexible solution for upstream or downstream server connections, making network administration easy.

Equipped with a complete line-up of L2 features, the DXS-1210 Series includes port mirroring, Spanning Tree Protocol and Link Aggregation Control Protocol (LACP). Network maintenance features include loopback detection and cable diagnostics. In addition, with bandwidth control, network administrators can reserve bandwidth for important functions that require larger bandwidth or might have high priority.



## Principle Product Features

### DXS-1210-10TS

- 10GBASE-T ports x 8
- 10 Gigabit SFP+ ports x 2

### DXS-1210-12SC

- 10 Gigabit SFP+ ports x 10
- 10GBASE-T/SFP+ Combo ports x 2

### DXS-1210-12TC

- 10GBASE-T ports x 8
- 10 Gigabit SFP+ ports x 2
- 10GBASE-T/SFP+ Combo ports x 2

## Optional Products

### Optional 10 Gbps SFP+ Direct Attach Cables

DEM-CB100S	10 Gigabit SFP+ 1 m Direct Attach Cable
DEM-CB300S	10 Gigabit SFP+ 3 m Direct Attach Cable
DEM-CB700S	10 Gigabit SFP+ 7 m Direct Attach Cable

## Key Series Features

- 10 Gigabit Ethernet over standard CAT6 twisted-pair cables
- D-Link Green technology conserves energy by powering down unused ports, saving you money while reducing your carbon footprint
- Access Control List
- IP-MAC-Port Binding\*
- MAC/Web access control
- D-Link Safeguard Engine
- Port Security
- ARP Spoofing Prevention\*
- D-Link Network Assistant Utility or Web-based GUI
- Compact CLI through Telnet
- Auto Surveillance VLAN
- Loopback Detection
- Cable Diagnostics
- Static Route
- LLDP/LLDP-MED
- Auto Voice VLAN

## What is 10GBASE-T?

10GBASE-T is a IEEE standard that allows 10 Gigabit connectivity using standard CAT6 (or above) network cables. It allows you to create a 10 Gigabit network without the cost of adding expensive fibre transceivers and cables, using existing cabling structure. It gives businesses a simple and easy migration to 10 Gigabit Ethernet.



MODEL		DXS-1210-10TS	DXS-1210-12TC	DXS-1210-12SC
Interfaces	10GBASE-T	8	8	
	10 Gigabit SFP+ Slot	2	2	10
	10GBASE-T/SFP+ Combo		2	2
General Features	Stackability			
	Stacking Speed			
	Switching Capacity	200 Gbps	240 Gbps	240 Gbps
	Max Packet Forwarding Rate	148.8 Mpps	178.56 Mpps	178.56 Mpps
	Packet Buffer Memory	2 MB		
	MAC Address Table	16,000		
	Flow Control	IEEE 802.3x Flow Control, HOL Blocking Prevention		
Layer 2 Features	Jumbo Frame	9000 Bytes		
	Loop Protection	802.1D, 802.1w, 802.1s, ERPS		
	803.2ad Link Aggregation	Max 8 Groups per Device, 8 Ports per Group		
	Port Mirroring	One-to-One, Many-to-One, Mirroring for Tx/Rx/Both		
	Loopback Detection	•		
Layer 3 Features	Cable Diagnostics	•		
	ARP	768 Static ARP		
	IP Interfaces	16		
	Default Routing	•		
Virtual LAN (VLAN)	Static Routing	Max. 32 IPv4 entries, 32 IPv6 entries		
	VLANs	4096 Static		
	GVRP*	4096 Dynamic		
	Subnet-based VLAN			
	Double VLAN (Q-in-Q)			
	Port-based VLAN	•		
Layer 2 Multicasting	MAC-based VLAN			
	Protocol VLAN (802.1v)			
Quality of Service (QoS)	Groups	384		
	Protocols	IGMP Snooping v1 / v2 / v3, MLD Snooping v1 / v2		
	Standard	802.1p, DSCP		
	Number of Queues	8		
	Mode	Strict / WRR / DRR / WDRR / Strict + WDRR		
Security	CoS Handling	802.1p Priority Queues, DSCP, ToS, IPv6 Traffic Class, TCP/UDP port, VLAN ID, MAC, Ether Type, IP Address, Protocol Type, IPv6 Flow Label		
	Bandwidth Control	Port-based (Ingress/Egress, min. granularity 64 kbps) iSCSI Awareness*		
	STP Security	BPDU Filtering, Root Restriction		
	Port Security	•		
	DoS Attack Prevention	•		
	Storm Control	Broadcast / Multicast / Unicast		
	IP-MAC-Port Binding	•*		
	DHCP Server Screening	•		
Authentication, Authorisation and Accounting (AAA)	ARP Spoofing Prevention	•*		
	Traffic Segmentation	•		
	D-Link SafeGuard Engine	•		
	802.1x Authentication	Port-based, Host-based, Dynamic VLAN/ACL/QoS Assignment		
	Web-based Access Control (WAC)*	Port-based, Host-based, Dynamic VLAN/ACL/QoS Assignment		
Access Control Lists (ACL)	MAC-based Access Control (MAC)*	Port-based, Host-based, Dynamic VLAN/ACL/QoS Assignment		
	Guest VLAN	•		
	Switch Access*	RADIUS / TACACS+		
Management	Rules	Max 50 access list, Ingress ACL: 256 rules		
	ACL Handling	802.1p priority, VLAN*, MAC address, Ether type, IP address, DSCP, Protocol type, TCP/UDP port number, IPv6 Traffic Class, IPv6 flow label		
	Time-Based ACL			
	Switch Access	Web GUI, Telnet		
	Command Line Interface (CLI)	Compact CLI		
	sFlow			
	SNMP	v1 / v2c / v3		
Physical and Environment	DHCP	Client, Relay*		
	RMON	v1 / v2*		
	TFTP Client	•		
	Syslog	•		
Modules / Transceivers	Power Supply	Internal		
	Maximum Power Consumption	68.67 W	90.81 W	43.81 W
	Power Saving Technology	Green Ethernet		
	Operating Temperature	-5°C to 50°C		
	Operating Humidity	0% to 95% RH Non-Condensing		
	Dimensions (W x D x H)	440 x 210 x 44 mm	440 x 210 x 44 mm	440 x 210 x 44 mm
Modules / Transceivers	Mean Time Between Failures (MTBF)	284,314 Hours	217,863 Hours	252, 724 Hours
	10 Gigabit SFP+ Transceivers	DEM-431XT, DEM-431XT-DD, DEM-432XT, DEM-432XT-DD, DEM-433XT, DEM-433XT-DD, DEM-434XT, DEM-436XT-BXD, DEM-436XT-BXU		
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712		

\*Feature available in future firmware upgrade

# Layer 3 Lite Gigabit Stackable SmartPro Switches

## DGS-1510 Series

With up to 48 1000BASE-T ports, two Gigabit SFP ports and two 10 Gigabit SFP+ ports or four 10 Gigabit SFP+ ports, along with PoE support, the DGS-1510 Series is ideal for deployment in an SME/SMB core. Add to that the 10 Gigabit uplinks to connect with servers equipped with 10G port connectivity, and the DGS-1510 serves as a good interconnection between the core switch and edge switch for medium- to large-scale enterprise deployment. If you're looking for PoE capability, the DGS-1510-28P and DGS-1510-28XMP are your perfect partner for powering VoIP phones, wireless access points or network cameras, thanks to 24 Power over Ethernet-enabled ports that can support up to 193 W / 370 W of power output following the enhanced IEEE 802.3at PoE+ standard. This switch therefore offers the ideal balance between flexibility in power allocation for a variety of powered devices and affordable installation costs. The wired-speed inter-VLAN routing also helps by reducing the pressure of routers and backbone networks, improving the overall network efficiency.



### Principle Product Features

#### DGS-1510-20

- 10/100/1000BASE-T ports x 16
- SFP ports x 2
- 10 Gigabit SFP+ ports x 2

#### DGS-1510-28

- 10/100/1000BASE-T ports x 24
- SFP ports x 2
- 10 Gigabit SFP+ ports x 2

#### DGS-1510-28X

- 10/100/1000BASE-T ports x 24
- 10 Gigabit SFP+ ports x 4

#### DGS-1510-28P

- 10/100/1000BASE-T PoE ports x 24
- SFP ports x 2
- 10 Gigabit SFP+ ports x 2
- 802.3af (PoE) and 802.3at (PoE+) support
- 193 W PoE power budget

#### DGS-1510-52

- 10/100/1000BASE-T ports x 48
- SFP ports x 2
- 10 Gigabit SFP+ ports x 2

#### DGS-1510-52X

- 10/100/1000BASE-T ports x 48
- 10 Gigabit SFP+ ports x 4

#### DGS-1510-28XMP

- 10/100/1000BASE-T PoE ports x 24
- 10 Gigabit SFP+ ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget

### Key Series Features

- 10 Gigabit connectivity
- Physical stacking via two 10 Gigabit SFP+ ports, with stacking for up to six devices
- Single IP management (virtual stacking of up to 32 units)
- Layer 3 Static routing
- IPv6 management support
- Auto surveillance VLAN
- Auto voice VLAN
- Loopback Detection (LBD)
- LLDP/LLDP-MED
- Access Control List (ACL)
- D-Link SafeGuard Engine
- Port security
- ARP spoofing prevention
- IP-MAC-port binding
- DoS attack prevention
- D-Link Network Assistant Utility or web-based GUI
- Built-in SNMP MIB for remote NMS (D-View 7)
- Full CLI via console port
- IPv4/IPv6 stack
- Dual images
- IEEE 802.3az Energy Efficient Ethernet
- D-Link Green™ 3.0 power-saving features

### Optional Accessories

#### Optional 10 Gbps SFP+ Direct Attach Cables

DEM-CB1005	10 Gigabit SFP+ 1 m Direct Attach Cable
DEM-CB3005	10 Gigabit SFP+ 3 m Direct Attach Cable
DEM-CB7005	10 Gigabit SFP+ 7 m Direct Attach Cable

#### Optional Management Software

DV-700	D-View 7 Network Management System
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MODEL		DGS-1510-20	DGS-1510-28	DGS-1510-28P	DGS-1510-28X	DGS-1510-28XMP	DGS-1510-52	DGS-1510-52X
Interfaces	Fast Ethernet							
	Gigabit Ethernet	16	24	24 (PoE)	24	24 (PoE)	48	48
	SFP Slots	2	2	2			2	
	10/100/1000BASE-T/SFP Combo Slots							
	10 Gigabit SFP+ Slots	2	2	2	4	4	2	4
General Features	Stackability	Virtual Stacking of up to 32 units; Physical Stacking of up to 6 units						
	Stacking Speed	Up to 20 Gbps Full Duplex						
	Switching Capacity	76 Gbps	92 Gbps	92 Gbps	128 Gbps	128 Gbps	140 Gbps	176 Gbps
	Max Packet Forwarding Rate	56.54 Mpps	68.45 Mpps	68.45 Mpps	95.24 Mpps	95.24 Mpps	104.16 Mpps	130.95 Mpps
	Packet Buffer Memory	1.5 MB						3 MB
	MAC Address Table	16,000						
	Flow Control	IEEE 802.3x Flow Control, HOL Blocking Prevention						
	Jumbo Frame	9216 Bytes						
Layer 2 Features	Loop Protection	802.1D, 802.1w, 802.1s, ERPS						
	803.2ad Link Aggregation	32 Groups, 8 Ports per Group						
	Port Mirroring	One-to-One, Many-to-One, Mirroring for Tx/Rx/Both, Flow-based (ACL) Mirroring						
	Loopback Detection	•						
	Cable Diagnostics	•						
Layer 3 Features	ARP	256 Static ARP						
	IP Interfaces	16						
	Default Routing	•						
	Static Routing	Max. 64 IPv4 entries, 32 IPv6 entries						
Virtual LAN (VLAN)	VLANs	4096 Static						
	GVRP	4096 Dynamic						
	Protocol VLAN (802.1v)	•						
	Double VLAN (Q-in-Q)	•						
Layer 2 Multicasting	Groups	512						
	Protocols	IGMP Snooping v1 / v2 / v3 awareness, MLD Snooping v1/ v2 awareness						
Quality of Service (QoS)	Standard	802.1p, DSCP						
	Number of Queues	8						
	Mode	Strict / WRR / DRR / Strict + WRR						
	CoS Handling	802.1p Priority Queues, VLAN ID, MAC, IP Address, Ether Type, IPv6 Traffic Class, IPv6 Flow Label, DSCP, Protocol Type, TCP/UDP Port						
	Bandwidth Control	Port-Based (Ingress/Egress, min. granularity 64 kbps)						
Security	STP Security	Root Restriction						
	Port Security	•						
	DoS Attack Prevention	•						
	Storm Control	Broadcast / Multicast / Unicast						
	IP-MAC-Port Binding	•						
	DHCP Server Screening	•						
	ARP Spoofing Prevention	•						
	Traffic Segmentation	•						
	D-Link SafeGuard Engine	•						
	Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN/ACL/QoS Assignment					
Web-Based Access Control (WAC)		Port-Based, Host-Based, Dynamic VLAN/ACL/QoS Assignment						
MAC-Based Access Control (MAC)		Port-Based, Host-Based, Dynamic VLAN/ACL/QoS Assignment						
Network Access Protection (NAP)		•						
Guest VLAN		•						
Access Control Lists (ACL)	Switch Access	RADIUS / TACACS+, 3-Level User Account						
	Rules	Max 256 Access List, 768 Rules						
	ACL Handling	802.1p Priority, VLAN ID, MAC, IP Address, Ether Type, IPv6 Traffic Class, IPv6 Flow Label, DSCP, Protocol Type, TCP/UDP Port						
Power over Ethernet	Standard			802.3af (PoE) 802.3at (PoE+)		802.3af (PoE) 802.3at (PoE+)		
	PoE Ports			24		24		
	PoE Power Budget			193 W		370 W		
	Time-Based PoE			•		•		
Management	Switch Access	Web GUI, Telnet, Console						
	sFlow	•						
	SNMP	v1 / v2c / v3						
	DHCP	Client, Relay						
	RMON	v1						
	TFTP Client	•						
	Syslog	•						
Physical and Environment	Power Supply	Internal						
	Maximum Power Consumption	20.3 W	24 W	238.7 W	22.3 W	436.3 W	38.4 W	44.2 W
	Power-Saving Technology	Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet						
	Operating Temperature	-5°C to 50°C						
	Operating Humidity	0% to 95% RH Non-Condensing						
Modules/ Transceivers	Dimensions (W x D x H)	280 x 180 x 44 mm	440 x 210 x 44 mm	440 x 210 x 44 mm	440 x 210 x 44 mm	440 x 308 x 44 mm	440 x 250 x 44 mm	440 x 250 x 44 mm
	10 Gigabit SFP+ Transceivers	DEM-431XT, DEM-431XT-DD, DEM-432XT, DEM-432XT-DD, DEM-433XT, DEM-433XT-DD, DEM-434XT, DEM-436XT-BXD, DEM-436XT-BXU						
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712						

# Layer 2 Fast Ethernet Managed Switches

## DES-3200 Series

A member of D-Link's Layer 2 managed switch family, the DES-3200 Series is designed for the ETTX, FTTX and enterprise markets. These switches provide 8, 16, 24 or 48 10/100 Mbps Fast Ethernet connections and various SFP or combo Gigabit/SFP port uplink options. The compact DES-3200-10 and DES-3200-18 incorporate a fanless design so are suitable for desktop, telecom cabinet or distribution box deployment, while the DES-3200-28 and DES-3200-52 models (and their PoE counterparts) are standard 1U rack-mount size and provide 24 or 48 copper connections on Fast Ethernet; beneficially, their design also includes 2 or 4 Gigabit/SFP Combo ports which provide up to 4 Gbps uplink bandwidth or dual Ethernet ring topology support. The DES-3200-28P/52P are Power over Ethernet (PoE) compliant and provide 15.4 W per port and up to 30 W in the first four or eight ports (according to model), so are perfect for powering and networking devices such as video IP phones, wireless access points and IP cameras.



### Principle Product Features

#### DES-3200-10

- 10/100BASE-TX ports x 8
- 10/100/1000BASE-T/SFP Combo port x 1
- SFP port x 1

#### DES-3200-18

- 10/100BASE-TX ports x 16
- 10/100/1000BASE-T/SFP Combo port x 1
- SFP port x 1

#### DES-3200-26

- 10/100BASE-TX ports x 24
- 10/100/1000BASE-T/SFP Combo port x 2

#### DES-3200-28F

- 100BASE-FX ports x 24
- 10/100/1000BASE-T/SFP Combo port x 4

#### DES-3200-28

- 10/100BASE-TX ports x 24
- 10/100/1000BASE-T/SFP Combo ports x 2
- SFP ports x 2

#### DES-3200-28P

- 10/100BASE-TX PoE ports x 24
- 10/100/1000BASE-T/SFP Combo ports x 2
- 10/100/1000 BASE-T ports x 2
- 802.3af (PoE) and 802.3at (PoE+) support
- 188 W PoE power budget
- Port 1 - 4: Up to 30W
- Port 5 - 24: Up to 15.4W

#### DES-3200-52

- 10/100BASE-TX ports x 48
- 10/100/1000BASE-T/SFP Combo ports x 2
- SFP ports x 2

#### DES-3200-52P

- 10/100BASE-TX PoE ports x 48
- 10/100/1000BASE-T/SFP Combo ports x 2
- 10/100/1000 BASE-T ports x 2
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget
- Port 1 - 8: Up to 30W
- Port 9 - 48: Up to 15.4W

### Key Series Features







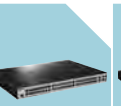
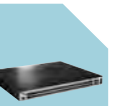
- D-Link single IP management (virtual stacking)
- Internet Group Management Protocol (IGMP) snooping
- Multicast Listener Discovery (MLD) snooping
- Ethernet Ring Protection Switching (ERPS)
- Gratuitous Address Resolution Protocol (ARP)
- 802.3ah Ethernet link OAM
- 802.1v protocol VLAN
- VLAN trunking
- Double VLAN (Q-in-Q)
- Selective Q-in-Q
- IGMP snooping multicast (ISM) VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- CPU interface filtering
- 802.1ag Connectivity Fault Management (CFM)
- Broadcast/multicast/unicast storm control
- Traffic segmentation
- D-Link SafeGuard Engine
- IP-MAC-Port Binding (IMPB)
- ARP spoofing prevention
- BPDU attack protection
- DHCP server screening
- 802.1X port-based access control
- 802.1X host-based access control
- Per-queue bandwidth control

### Optional Accessories

Optional Management Software  
DV-700 D-View 7 Network Management System

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MODEL		DES-3200-10	DES-3200-18	DES-3200-26	DES-3200-28	DES-3200-28F	DES-3200-28P	DES-3200-52	DES-3200-52P	
Interfaces	Fast Ethernet	8	16	24	24		24 (PoE)	48	48 (PoE)	
	100BASE-FX					24				
	Gigabit Ethernet						2		2	
	SFP Slots	1	1		2			2		
	10/100/1000BASE-T/SFP Combo Slots	1	1	2	2	4	2	2	2	
General Features	Stackability	Virtual stacking of up to 32 units								
	Stacking Speed									
	Switching Capacity	5.6 Gbps	7.2 Gbps	8.8 Gbps	12.8 Gbps	12.8 Gbps	12.8 Gbps	17.6 Gbps	17.6 Gbps	
	Max Packet Forwarding Rate	4.2 Mpps	5.4 Mpps	6.6 Mpps	12.8 Mpps	12.8 Mpps	12.8 Mpps	13.1 Mpps	13.1 Mpps	
	Packet Buffer Memory	1.5 MB								
	MAC Address Table	16,000								
	Flow Control	IEEE 802.3x Flow Control, HOL Blocking Prevention								
Jumbo Frame	12000 Bytes									
Layer 2 Features	Loop Protection	802.1D, 802.1w, 802.1s, ERPS								
	803.2ad Link Aggregation	5 Groups 8 Ports per Group	9 Groups 8 Ports per Group	13 Groups 8 Ports per Group	14 Groups 8 Ports per Group	14 Groups 8 Ports per Group	14 Groups 8 Ports per Group	26 Groups 8 Ports per Group	26 Groups 8 Ports per Group	
	Port Mirroring	One-to-One, Many-to-One, Mirroring for Tx/Rx/Both, Flow-Based (ACL) Mirroring								
	Loopback Detection	•								
	Cable Diagnostics	•								
Layer 3 Features	ARP	255 Static ARP								
	IP Interfaces	2								
	Default Routing	•								
	Static Routing	Max 16 entries								
Virtual LAN (VLAN)	VLANs	4096 Static								
	GVRP	255 Dynamic								
	Protocol VLAN (802.1v)	•								
	Double VLAN (Q-in-Q)	Port-Based / Selective								
Layer 2 Multicasting	Groups	1000								
	Protocols	IGMP Snooping v1 / v2 / v3 awareness, MLD Snooping v1/ v2 awareness								
Quality of Service (QoS)	Standard	802.1p, DSCP								
	Number of Queues	8								
	Mode	Strict / WRR / Strict + WRR								
	CoS Handling	Switch Port, 802.1p Priority Queues, VLAN ID, MAC, IPv4/v6 Address, Ether Type, TOS, IPv6 Traffic Class, IPv6 Flow Label, DSCP, Protocol Type, TCP/UDP Port, User-Defined Packet Content								
Security	Bandwidth Control	Port-Based (Ingress/Egress, min. granularity 8 kbps), Flow-Based (Ingress/Egress, min. granularity 8 kbps), Per egress queue (min. granularity 8 kbps)								
	STP Security	BPDU Filtering, Root Restriction								
	Port Security	•								
	DoS Attack Prevention	•								
	Storm Control	Broadcast / Multicast / Unicast								
	IP-MAC-Port Binding	•								
	DHCP Server Screening	•								
	ARP Spoofing Prevention	•								
	Traffic Segmentation	•								
	D-Link SafeGuard Engine	•								
	Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN/ACL/QoS Assignment							
Web-Based Access Control (WAC)		Port-Based, Host-Based								
MAC-Based Access Control (MAC)		Port-Based, Host-Based, Dynamic VLAN/ACL/QoS Assignment								
Network Access Protection (NAP)		802.1x NAP, DHCP NAP								
Guest VLAN		•								
Switch Access		RADIUS / TACACS+, 4-Level User Account								
Access Control Lists (ACL)	Rules	Ingress ACL: 4 Profiles, 256 Rules								
	ACL Handling	Switch Port, VLAN ID, 802.1p Priority, MAC, IPv4/v6 Address, Ether Type, DSCP, TCP/UDP Port, Protocol Type, IPv6 Traffic Class, IPv6 Flow Label, User-Defined Packet Content								
	Time-Based ACL	•								
Power over Ethernet	Standard						802.3af (PoE) 802.3at (PoE+)		802.3af (PoE) 802.3at (PoE+)	
	PoE Ports						802.3af (PoE): 20 802.3at (PoE+): 4		802.3af (PoE): 40 802.3at (PoE+): 8	
	PoE Power Budget						188 W		370 W	
	Time-Based PoE						•		•	
Management	Switch Access	Web GUI, Telnet, Console								
	sFlow	•								
	SNMP	v1 / v2c / v3								
	DHCP	Client, Relay								
	RMON	v1 / v2								
	TFTP Client	•								
	Syslog	•								
Physical and Environment	Power Supply	Internal								
	Maximum Power Consumption	13.54 W	15.44 W	20.83 W	20.83 W	44.38 W	250.78 W	33.38 W	471.6 W	
	Power-Saving Technology	Green Ethernet								
	Operating Temperature	-5°C to 50°C								
	Operating Humidity	10%-90% RH Non-Condensing								
	Dimensions (W x D x H)	228.5 x 195 x 44 mm	280 x 180 x 44 mm	441 x 210 x 44 mm	441 x 210 x 44 mm	441 x 210 x 44 mm	441 x 308 x 44 mm	441 x 308 x 44 mm	441 x 308 x 44 mm	441 x 308 x 44 mm
Mean Time Between Failures (MTBF)	738,788 Hours	670,243 Hours	601,273 Hours	590,424 Hours	484,053 Hours	189,396 Hours	440,074 Hours	189,396 Hours		
Modules/ Transceivers	SFP Transceivers	DEM-210, DEM-211, DEM-220T, DEM-220R, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712								



# Layer 2 Gigabit Managed Switch

## DGS-3000 Series

The DGS-3000 Series is a Layer 2 managed switch that provides wired Gigabit speed access – perfect for metro and campus networks – and since it's designed as a 1U rack-mount case and comes with IPV6 support, it's suitable for enterprise access or service provider telecom cabinets. The DGS-3000 Series maximises network performance without compromising on reliability and security, and Green Technology decreases energy costs by reducing power consumption, again without compromising on performance.



### Principle Product Features

#### DGS-3000-10TC

- 10/100/1000BASE-T ports x 8
- 10/100/1000BASE-T/SFP Combo ports x 2

#### DGS-3000-24TC

- 10/100/1000BASE-T ports x 20
- 10/100/1000BASE-T/SFP Combo ports x 4

#### DGS-3000-26TC

- 10/100/1000BASE-T ports x 20
- 10/100/1000BASE-T/SFP Combo ports x 4
- 10 Gigabit SFP+ ports x 2

### Optional Accessories

#### Optional Redundant Power Supply & Cable

DPS-200A 60 W Redundant Power Supply (with 1 meter DC Power Cable)  
DPS-CB150-2PS v.B1 The RPS cable for DGS-3000 & DPS-200A

#### Optional 10 Gbps SFP+ Direct Attach Cables (For DGS-3000-26TC only)

DEM-CB100S 10 Gigabit SFP+ 1 m Direct Attach Cable  
DEM-CB300S 10 Gigabit SFP+ 3 m Direct Attach Cable  
DEM-CB700S 10 Gigabit SFP+ 7 m Direct Attach Cable  
DEM-CB1000XS-4XS 40G QSFP+ to 4-Port 10G SFP+ 1m Direct Attach Cable

### What does 1U Rack-Mountable mean?

Many D-Link switches and other supporting hardware such as RPSs (Redundant Power Supplies) are designed to fit in standard 19in-wide communications enclosure frames. 1U Rack-Mountable means this device is one standard unit high (which is 44mm) and that it can thus be mounted into a standard comms rack. Many of D-Link's switches that are narrower than 19in are supplied with brackets so they can still be rack-mounted if desired.

### Key Series Features

- Virtual stacking; up to 32 units per virtual stack managed through a single IP address
- 16,000 MAC address tables
- IEEE 802.3x flow control, HOL blocking prevention flow control
- Jumbo frames up to 12 KB
- BPDU filtering
- Root restriction
- Loopback Detection (LBD)
- Link aggregation
- Port mirroring
- 8 queues per port
- DSCP
- 802.1p
- Bandwidth control
- Queue handling
- Time-based QoS



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MODEL		DGS-3000-10TC	DGS-3000-24TC	DGS-3000-26TC	
Interfaces	Fast Ethernet				
	Gigabit Ethernet	8	20	20	
	SFP Slots				
	10/100/1000BASE-T/SFP Combo Slots	2	4	4	
	10 Gigabit SFP+ Slots			2	
General Features	Stackability	Virtual Stacking of up to 32 Units			
	Stacking Speed				
	Switching Capacity	20 Gbps	48 Gbps	88 Gbps	
	Max Packet Forwarding Rate	14.88 Mpps	35.71 Mpps	65.48 Mpps	
	Packet Buffer Memory	1.5 MB			
	MAC Address Table	16,000			
	Flow Control	IEEE 802.3x Flow Control, HOL Blocking Prevention			
	Jumbo Frame	12288 Bytes			
Layer 2 Features	Loop Protection	802.1D, 802.1w, 802.1s, ERPS			
	803.2ad Link Aggregation	5 Groups, 8 Gigabit Ports per Group	12 Groups, 8 Gigabit Ports per Group	13 Groups, 8 Gigabit Ports per Group	
	Port Mirroring	One-to-One, Many-to-One, Mirroring for Tx/Rx/Both, Flow-Based (ACL) Mirroring			
	Loopback Detection	•			
	Cable Diagnostics	•			
Layer 3 Features	ARP	128 Static ARP			
	IP Interfaces	10			
	Default Routing	•			
	Static Routing	Max. 10 IPv4 entries, 10 IPv6 entries			
Virtual LAN (VLAN)	VLANs	4096 Static			
	GVRP	255 Dynamic			
	Protocol VLAN (802.1v)	•			
Layer 2 Multicasting	Double VLAN (Q-in-Q)	Port-Based / Selective			
	Groups	1000			
Quality of Service (QoS)	Protocols	IGMP Snooping v1/ v2 / v3 awareness, MLD Snooping v1/ v2 awareness			
	Standard	802.1p, DSCP			
	No. of Queues	8			
	Mode	Strict / WRR / DRR / Strict + WRR			
	CoS Handling	802.1p Priority Queues, VLAN ID, MAC, Ether Type, IPv4/v6 Address, IPv6 Traffic Class, IPv6 Flow Label, DSCP, Protocol Type, TCP/UDP Port, User-Defined Packet Content			
	Bandwidth Control	Port-Based (Ingress/Egress, min. granularity 64 kbps), Flow-Based (Ingress/Egress, min. granularity 64 kbps), Per egress queue (min. granularity 64 kbps)			
	STP Security	BPDU Filtering, Root Restriction			
	Port Security	•			
Security	DoS Attack Prevention	•			
	Storm Control	Broadcast / Multicast / Unicast			
	IP-MAC-Port Binding	•			
	DHCP Server Screening	•			
	ARP Spoofing Prevention	•			
	Traffic Segmentation	•			
	D-Link SafeGuard Engine	•			
	Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based, Host Based, Dynamic VLAN Assignment		
		Web-Based Access Control (WAC)	Port-Based, Host Based, Dynamic VLAN Assignment		
		Mac-Based Access Control (MAC)	Port-Based, Host Based, Dynamic VLAN Assignment		
Network Access Protection (NAP)		802.1x NAP, DHCP NAP			
Guest VLAN		•			
Access Control List (ACL)	Switch Access	RADIUS / TACACS+, 4-Level User Account			
	Rules	Ingress ACL: 4 Profiles, 1024 Rules			
	ACL Handling	Switch Port, VLAN ID, 802.1p Priority, MAC, IPv4/v6 Address, Ether Type, DSCP, TCP/UDP Port, Protocol Type, IPv6 Traffic Class, IPv6 Flow Label, User-Defined Packet Content			
	Time-Based ACL	•			
Management	Switch Access	Web GUI, Telnet, Console			
	sFlow				
	SNMP	v1 / v2c / v3			
	DHCP	Client, Relay			
	RMON	v1 / v2			
	TFTP Client	•			
	Syslog	•			
Physical and Environment	Power Supply	Internal with RPS Option			
	Maximum Power Consumption	16.5 W	21.5 W	29.6 W	
	Power-Saving Technology	Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet			
	Operating Temperature	0°C to 50°C			
	Operating Humidity	10% to 90% RH Non-Condensing			
	Dimensions (W x D x H)	228.5 x 195 x 44 mm	441 x 209.9 x 44 mm	441 x 209.9 x 44 mm	
Modules/Transceivers	Mean Time Between Failures (MTBF)	711,565 Hours	517,194 Hours	472,843 Hours	
	10 Gigabit SFP+ Transceivers (For DGS-3000-26TC only)	DEM-431XT, DEM-431XT-DD, DEM-432XT, DEM-432XT-DD, DEM-433XT, DEM-433XT-DD, DEM-434XT, DEM-435XT, DEM-435XT-DD, DEM-436XT-BXU, DEM-436XT-BXD			
	SFP Transceivers	DEM-210, DEM-211, DEM-220T, DEM-220R, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712			

# xStack Layer 2/3 Gigabit Stackable Managed Switches

## DGS-3120 Series

The DGS-3120 Series is an enhanced Layer 2/3 stackable managed solution designed to connect end-users in a secure SMB or enterprise network, so is perfect for businesses that require a high level of network security and maximum uptime. Its comprehensive security features and PoE support make it suitable for any business environment where manageability, reliability and high port densities are necessary at an affordable price. Each of the five switch models in this series is embedded with three different software images – Standard Image (SI), the optional Enhanced Image (EI) and the optional Routed Image (RI). The Standard Image provides sophisticated features for campus or enterprise usage. It includes advanced Quality of Service (QoS), traffic shaping, L2 multicasting, robust security features and IPv6 features which are suitable for next-generation IPv6 networks or triple play applications over Metro Ethernet. The Enhanced Image supports ERPS, Double VLAN (Q-in-Q), Ethernet OAM, Static Route, IMPB and sFlow. The Routed Image supports DHCP Server, VRRP, IPv6 Tunneling, RIP, OSPF, MLD, PIM and DVMRPv3. With enhanced network reliability and comprehensive security, as well as proactive and effective network management and future-proof IPv6 support, the DGS-3120 Series is designed to scale as your network requirement grows.



### Principle Product Features

#### DGS-3120-24TC

- 10/100/1000BASE-T ports x 20
- 10/100/1000BASE-T/SFP Combo ports x 4
- 10 Gigabit CX4 Stacking ports x 2

#### DGS-3120-24SC

- SFP ports x 16
- 10/100/1000BASE-T/SFP Combo ports x 8
- 10 Gigabit CX4 Stacking ports x 2

#### DGS-3120-24PC

- 10/100/1000BASE-T PoE ports x 20
- 10/100/1000BASE-T PoE /SFP Combo ports x 4
- 10 Gigabit CX4 Stacking ports x 2
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget (760 W with DPS-700 RPS)

#### DGS-3120-48TC

- 10/100/1000BASE-T ports x 44
- 10/100/1000BASE-T/SFP Combo ports x 4
- 10 Gigabit CX4 Stacking ports x 2

#### DGS-3120-48PC

- 10/100/1000BASE-T PoE ports x 44
- 10/100/1000BASE-T PoE /SFP Combo ports x 4
- 10 Gigabit CX4 Stacking ports x 2
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget (760 W with DPS-700 RPS)

### Optional Accessories

#### Optional Software Image Upgrade Licenses

DGS-3120-24TC-SE-LIC	DGS-3120-24TC Standard to Enhanced Image Upgrade License
DGS-3120-24SC-SE-LIC	DGS-3120-24SC Standard to Enhanced Image Upgrade License
DGS-3120-24PC-SE-LIC	DGS-3120-24PC Standard to Enhanced Image Upgrade License
DGS-3120-48TC-SE-LIC	DGS-3120-48TC Standard to Enhanced Image Upgrade License
DGS-3120-48PC-SE-LIC	DGS-3120-48PC Standard to Enhanced Image Upgrade License
DGS-3120-24TC-ER-LIC	DGS-3120-24TC Enhanced to Routed Image Upgrade License
DGS-3120-24SC-ER-LIC	DGS-3120-24SC Enhanced to Routed Image Upgrade License
DGS-3120-24PC-ER-LIC	DGS-3120-24PC Enhanced to Routed Image Upgrade License
DGS-3120-48TC-ER-LIC	DGS-3120-48TC Enhanced to Routed Image Upgrade License
DGS-3120-48PC-ER-LIC	DGS-3120-48PC Enhanced to Routed Image Upgrade License
DGS-3120-24TC-SR-LIC	DGS-3120-24TC Standard to Routed Image Upgrade License
DGS-3120-24SC-SR-LIC	DGS-3120-24SC Standard to Routed Image Upgrade License
DGS-3120-24PC-SR-LIC	DGS-3120-24PC Standard to Routed Image Upgrade License
DGS-3120-48TC-SR-LIC	DGS-3120-48TC Standard to Routed Image Upgrade License
DGS-3120-48PC-SR-LIC	DGS-3120-48PC Standard to Routed Image Upgrade License

#### Optional Redundant Power Supplies

DPS-200A	60 W Redundant Power Supply for DGS-3120-24TC and DGS-3120-24SC
DPS-500A	140 W Redundant Power Supply for DGS-3120-48TC
DPS-700	589 W Redundant Power Supply For DGS-3120-24PC and DGS-3120-48PC

#### Optional Management Software

DV-700	D-View 7 Network Management System
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#### Optional 10Gbps Stacking and Interconnect Cables

DEM-CB50	50 cm Stacking Cable
DEM-CB100	100 cm Stacking Cable
DEM-CB300	300 cm Stacking Cable
DEM-CB50ICX	50 cm Interconnect Cable for connecting with CX4 Devices

### Key Series Features

- Built-in 2 x 10 Gigabit CX4 stacking ports#
- 40 Gigabit stacking bandwidth
- Stackable up to six physical units
- PoE/PoE+ versions available
- Optional redundant power supply
- Smart fans
- 19in, 1U rack-mountable
- Comprehensive security
- IPv6 ready
- Supports Microsoft NAP
- sFlow
- SD Card slot for configuration backup
- Easy to configure through web interface
- Power-saving technology

XSTACK

dlinkgreen



Energy Efficient Ethernet

# Physical Stacking Only Supported in Standard Image (SI) and Enhanced Image (EI).

MODEL		DGS-3120-24TC	DGS-3120-24PC	DGS-3120-24SC	DGS-3120-48TC	DGS-3120-48PC
Interfaces	Fast Ethernet					
	Gigabit Ethernet	20	20 (PoE)		44	44 (PoE)
	SFP Slots			16		
	10/100/1000BASE-T/SFP Combo Slots	4	4 (PoE)	8	4	4 (PoE)
General Features	Stackability	Virtual Stacking of up to 32 Units; Physical Stacking of up to 6 Units				
	Stacking Speed	Up to 40 Gbps full duplex				
	Switching Capacity	88 Gbps	88 Gbps	88 Gbps	136 Gbps	136 Gbps
	Max Packet Forwarding Rate	65.48 Mpps	65.48 Mpps	65.48 Mpps	101.19 Mpps	101.19 Mpps
	Packet Buffer Memory	2 MB				
	MAC Address Table	16,000				
	Flow Control	IEEE 802.3x Flow Control, HOL Blocking Prevention				
	Jumbo Frame	13000 Bytes				
Layer 2 Features	Loop Protection	802.1D, 802.1w, 802.1s, ERPS*				
	803.2ad Link Aggregation	32 Groups, 8 Gigabit Ports per Group				
	Port Mirroring	One-to-One, Many-to-One, Mirroring for Tx/Rx/Both, Flow-Based (ACL) Mirroring, RSPAN				
	Loopback Detection	•				
	Cable Diagnostics	•				
Layer 3 Features	IP Interfaces	16*				
	Routing Protocols	Static*, RIP v1 / v2**, RIPng**, OSPF v2 / v3**				
	Policy-Based Routing	•**				
	Route Balancing					
	IPv6 Tunneling**	Static, ISATAP, GRE, 6to4				
	VRRP	•**				
Virtual LAN (VLAN)	VLANs	4096 Static				
	GVRP	255 Dynamic				
	Protocol VLAN (802.1v)	•				
Layer 2 Multicasting	Double VLAN (Q-in-Q)	Port-based*				
	Groups	1000				
Quality of Service (QoS)	Protocols	IGMP Snooping v1 / v2 / v3, MLD Snooping v1/ v2				
	Standard	802.1p, DSCP				
	Number of Queues	8				
	Mode	Strict / WRR / Strict + WRR				
	CoS Handling	Switch Port, VLAN ID, 802.1p Priority Queue, MAC, IPv4/v6 Address, DSCP, TCP/UDP Port, Protocol Type, IPv6 Traffic Class, IPv6 Flow Label, User-Defined Packet Content				
Security	Bandwidth Control	Port-Based (Ingress/Egress, min. granularity 8 kbps), Flow-Based (Ingress/Egress, min. granularity 8 kbps)				
	STP Security	BPDU Filtering, Root Restriction				
	Port Security	•				
	DoS Attack Prevention	•				
	Storm Control	Broadcast / Multicast / Unicast				
	IP-MAC-Port Binding	•*				
	DHCP Server Screening	•				
	ARP Spoofing Prevention	•				
	Traffic Segmentation	•				
	D-Link SafeGuard Engine	•				
	Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based, Host Based, Dynamic VLAN/ACL/QoS Assignment			
Web-Based Access Control (WAC)		Port-Based, Host Based, Dynamic VLAN/ACL/QoS Assignment				
MAC-Based Access Control (MAC)		Port-Based, Host Based, Dynamic VLAN/ACL/QoS Assignment				
Network Access Protection (NAP)		801.1X NAP, DHCP NAP				
Guest VLAN		•				
Access Control Lists (ACL)	Switch Access	RADIUS / TACACS+, 4-Level User Account				
	Rules	Ingress ACL: 6 Profiles, 256 Rules per Profile; Egress ACL: 4 Profiles, 128 Rules per Profile				
	ACL Handling	Ether Type, VLAN ID, 802.1p Priority, MAC, IPv4/v6 Address, DSCP, TCP/UDP Port, Protocol Type, IPv6 Traffic Class, IPv6 Flow Label, User-Defined Packet Content				
Power over Ethernet	Time-Based ACL	•				
	Standard		802.3af (PoE) 802.3at (PoE+)			802.3af (PoE) 802.3at (PoE+)
	PoE Ports		24			48
	PoE Power Budget		370 W (760 W with DPS-700 RPS)			370 W (760 W with DPS-700 RPS)
Management	Time-Based PoE	•				
	Switch Access	Web GUI, Telnet, Console				
	sFlow	•*				
	SNMP	v1 / v2c / v3				
	DHCP	Server**, Client, Relay				
	RMON	v1 / v2				
	TFTP Client	•				
Physical and Environment	Syslog	•				
	Power Supply	Internal with RPS Option				
	Maximum Power Consumption	35.5 W	488.3 W	33.5 W	61.5 W	539 W
	Power-Saving Technology	Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet				
	Operating Temperature	0°C to 50°C				
	Operating Humidity	10% to 90% RH Non-Condensing				
	Dimensions (W x D x H)	440 x 210 x 44 mm	440 x 310 x 44 mm	440 x 210 x 44 mm	440 x 310 x 44 mm	440 x 380 x 44 mm
Modules / Transceivers	Mean Time Between Failures (MTBF)	344,512 Hours	272,292 Hours	433,404 Hours	275,756 Hours	213,575 Hours
	SFP Transceivers	DEM-210, DEM-211, DEM-220T, DEM-220R, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712				



# xStack Layer 2+ Gigabit Stackable Managed Switches

## DGS-3420 Series

The xStack DGS-3420 Series of next-generation Layer 2+ Gigabit switches delivers performance, flexibility, security, multi-layer QoS, and accessibility, along with redundant power solutions for SMBs and enterprises. With high Gigabit port density, Gigabit SFP, 10 Gigabit SFP+ support, and advanced software solutions, these switches can act as either departmental access layer devices or aggregation switches to form a multi-level network structure with backbone and centralised high-speed servers. Service providers can take advantage of the high-SFP-density DGS-3420-28SC to structure the aggregation of Fibre to the Building (FTTB) networks that are extended to the subscribers' sites.



### Key Series Features

- Physical stack of up to 12 Units, up to 40 Gbps full-duplex stacking bandwidth
- Optional external redundant power supply
- Comprehensive security features, including Microsoft NAP
- Comprehensive IPv6 support
- Multiple functions in a single device: switching, static routing and PoE, thus eliminating the need to purchase multiple routers and switches
- Web-based GUI for easy management
- SD Card slot to store and restore configuration files
- Green Technology – power-saving mode, time-based PoE, smart fans

### Principle Product Features

#### DGS-3420-28TC

- 10/100/1000BASE-T ports x 20
- 10/100/1000BASE-T/SFP Combo ports x 4
- 10 Gigabit SFP+ ports x 4

#### DGS-3420-28SC

- SFP ports x 20
- 10/100/1000BASE-T/SFP Combo ports x 4
- 10 Gigabit SFP+ ports x 4

#### DGS-3420-26SC

- SFP ports x 20
- 10/100/1000BASE-T/SFP Combo ports x 4
- 10 Gigabit SFP+ ports x 2

#### DGS-3420-28PC

- 10/100/1000BASE-T PoE ports x 20
- 10/100/1000BASE-T PoE/SFP Combo ports x 4
- 10 Gigabit SFP+ ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget (760 W with DPS-700 RPS)

#### DGS-3420-52T

- 10/100/1000BASE-T ports x 48
- 10 Gigabit SFP+ ports x 4

#### DGS-3420-52P

- 10/100/1000BASE-T PoE ports x 48
- 10 Gigabit SFP+ ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget (760 W with DPS-700 RPS)

### Optional Accessories

#### Optional 10 Gbps SFP+ Direct Attach Cables

DEM-CB1005	10 Gigabit SFP+ 1 m Direct Attach Cable
DEM-CB3005	10 Gigabit SFP+ 3 m Direct Attach Cable
DEM-CB7005	10 Gigabit SFP+ 7 m Direct Attach Cable

#### Optional Redundant Power Supplies

DPS-500A	140 W Redundant Power Supply for DGS-3420-28TC, DGS-3420-28SC, DGS-3420-26SC and DGS-3420-52T
DPS-700	589 W Redundant Power Supply For DGS-3420-28PC and DGS-3420-52P

#### Optional Management Software







DV-700	D-View 7 Network Management System
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XSTACK

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Energy Efficient Ethernet

							
MODEL		DGS-3420-28TC	DGS-3420-26SC	DGS-3420-28SC	DGS-3420-28PC	DGS-3420-52T	DGS-3420-52P
Interfaces	Fast Ethernet						
	Gigabit Ethernet	20			20 (PoE)	48	48 (PoE)
	SFP Slots		20	20			
	10/100/1000BASE-T/SFP Combo Slots	4	4	4	4 (PoE)		
	10 Gigabit SFP+ Slots	4	2	4	4	4	4
General Features	Stackability	Virtual Stacking of up to 32 Units; Physical Stacking of up to 12 Units					
	Stacking Speed	Up to 40 Gbps full duplex					
	Switching Capacity	128 Gbps	88 Gbps	128 Gbps	128 Gbps	176 Gbps	176 Gbps
	Max Packet Forwarding Rate	95.24 Mpps	65.47 Mpps	95.24 Mpps	95.24 Mpps	130.95 Mpps	130.95 Mpps
	Packet Buffer Memory	2 MB					
	MAC Address Table	16,000					
	Flow Control	IEEE 802.3x Flow Control, HOL Blocking Prevention					
Layer 2 Features	Jumbo Frame	13000 Bytes					
	Loop Protection	802.1D, 802.1w, 802.1s, ERPS					
	803.2ad Link Aggregation	32 Groups, 8 Gigabit Ports per Group / 2 x 10 Gigabit Ports per Group					
	Port Mirroring	One-to-One, Many-to-One, Mirroring for Tx/Rx/Both, Flow-Based (ACL) Mirroring, RSPAN					
	Loopback Detection	•					
Layer 3 Features	Cable Diagnostics	•					
	IP Interfaces	256					
	Routing Protocols	Static, RIP v1/v2, RIPvng					
	Policy-Based Routing	•					
	Route Balancing	•					
	IPv6 Tunneling	Static, ISATAP, 6to4					
Virtual LAN (VLAN)	VRRP	•					
	VLANs	4096 Static					
	GVRP	255 Dynamic					
Layer 2 Multicasting	Protocol VLAN (802.1v)	•					
	Double VLAN (Q-in-Q)	Port-Based / Selective					
	Groups	960 (IGMP), 480 (MLD)					
Quality of Service (QoS)	Protocols	IGMP Snooping v1/v2/v3, MLD Snooping v1/ v2					
	Standard	802.1p, DSCP					
	Number of Queues	8					
	Mode	Strict / WRR / Strict+WRR					
	CoS Handling	Switch Port, VLAN ID, 802.1p Priority Queue, MAC, IPv4/v6 Address, DSCP, TCP/UDP Port, Protocol Type, IPv6 Traffic Class, IPv6 Flow Label, User-Defined Packet Content					
Security	Bandwidth Control	Port-Based (Ingress/Egress, min. granularity 8 kbps), Flow-Based (Ingress, min. granularity 8 kbps)					
	STP Security	BPDU Filtering, Root Restriction					
	Port Security	•					
	DoS Attack Prevention	•					
	Storm Control	Broadcast / Multicast / Unicast					
	IP-MAC-Port Binding	•					
	DHCP Server Screening	•					
	ARP Spoofing Prevention	•					
	Traffic Segmentation	•					
	D-Link SafeGuard Engine	•					
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN/ACL/QoS Assignment					
	Web-Based Access Control (WAC)	Port-Based, Host-Based, Dynamic VLAN/ACL/QoS Assignment					
	MAC-Based Access Control (MAC)	Port-Based, Host-Based, Dynamic VLAN/ACL/QoS Assignment					
	Network Access Protection (NAP)	802.1x, NAP, DHCP NAP					
	Guest VLAN	•					
Access Control Lists (ACL)	Switch Access	RADIUS / TACACS+, 4-Level User Account					
	Rules	Ingress ACL: 6 Profiles, 256 Rules per Profile; Egress ACL: 4 Profiles, 128 Rules per Profile					
	ACL Handling	Ether Type, VLAN ID, 802.1p Priority, MAC, IPv4/v6 Address, DSCP, TCP/UDP Port, Protocol Type, IPv6 Traffic Class, IPv6 Flow Label, User-Defined Packet Content					
	Time-Based ACL	•					
Power over Ethernet	Standard				802.3af (PoE) 802.3at (PoE+)		802.3af (PoE) 802.3at (PoE+)
	PoE Ports				24		48
	PoE Power Budget				370 W (760 W with DPS-700 RPS)		370 W (760 W with DPS-700 RPS)
	Time-Based PoE				•		•
Management	Switch Access	Web GUI, Telnet, Console					
	sFlow	•					
	SNMP	v1 / v2c / v3					
	DHCP	Server, Client, Relay					
	RMON	v1 / v2					
	TFTP Client	•					
Physical and Environment	Syslog	•					
	Power Supply	Internal with RPS Option					
	Maximum Power Consumption	44.9 W	40.2 W	42.6 W	502.2 W	76 W	517.1 W
	Power-Saving Technology	Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet					
	Operating Temperature	0°C to 50°C					
	Operating Humidity	10% to 90% RH Non-Condensing					
	Dimensions (W x D x H)	441 x 310 x 44 mm	441 x 310 x 44 mm	441 x 310 x 44 mm	441 x 380 x 44 mm	441 x 380 x 44 mm	441 x 380 x 44 mm
Mean Time Between Failures (MTBF)	293,446 Hours	300,618 Hours	298,747 Hours	237,115 Hours	248,607 Hours	226,203 Hours	
Modules / Transceivers	10 Gigabit SFP+ Transceivers	DEM-431XT, DEM-431XT-DD, DEM-432XT, DEM-432XT-DD, DEM-433XT, DEM-433XT-DD, DEM-434XT, DEM-435XT, DEM-435XT-DD, DEM-436XT-BXU, DEM-436XT-BXD					
	SFP Transceivers	DEM-210, DEM-211, DEM-220T, DEM-220R, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712					

# xStack Layer 3 Gigabit Stackable Managed Switches

## DGS-3620 Series

The xStack DGS-3620 Series of next-generation Gigabit Layer 3 Stackable Managed Switches deliver businesses with performance, flexibility, security, multi-layer QoS and access control, along with redundant power solutions. With high Gigabit port densities, Gigabit SFP and 10 Gigabit SFP+ support, and advanced software solutions, these switches can act as either departmental access layer devices or core switches to form a multi-level network structure with backbone and centralised high-speed servers. Service providers can take advantage of the high SFP density switches to structure the cores of Fibre to the Building (FTTB) networks that they extend to the subscriber's sites. Each of the five switch models in this series is embedded with two different software images – Standard Image (SI) and the optional Enhanced Image (EI). The Standard Image provides sophisticated



features such as advanced Quality of Service (QoS), traffic shaping, L2 multicasting, ERPS, Double VLAN (Q-in-Q), Static Route, IMPB, sFlow and robust security features. The Enhanced Image supports OAM, BGP, IPv6 Dynamic Routing and Tunneling which are all suitable for a Service Provider network.

### Principle Product Features

#### DGS-3620-28TC

- 10/100/1000BASE-T ports x 20
- 10/100/1000BASE-T/SFP Combo ports x 4
- 10 Gigabit SFP+ ports x 4

#### DGS-3620-28SC

- SFP ports x 20
- 10/100/1000BASE-T/SFP Combo ports x 4
- 10 Gigabit SFP+ ports x 4

#### DGS-3620-28PC

- 10/100/1000BASE-T PoE ports x 20
- 10/100/1000BASE-T PoE/SFP Combo ports x 4
- 10 Gigabit SFP+ ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget (760 W with DPS-700 RPS)

#### DGS-3620-52T

- 10/100/1000BASE-T ports x 48
- 10 Gigabit SFP+ ports x 4

#### DGS-3620-52P

- 10/100/1000BASE-T PoE ports x 48
- 10 Gigabit SFP+ ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget (760 W with DPS-700 RPS)

### Optional Accessories

#### Optional Software Image Upgrade Licenses

DGS-3620-28TC-SE-LIC	DGS-3620-28TC Standard to Enhanced Image Upgrade License
DGS-3620-28SC-SE-LIC	DGS-3620-28SC Standard to Enhanced Image Upgrade License
DGS-3620-28PC-SE-LIC	DGS-3620-28PC Standard to Enhanced Image Upgrade License
DGS-3620-52T-SE-LIC	DGS-3620-52T Standard to Enhanced Image Upgrade License
DGS-3620-52P-SE-LIC	DGS-3620-52P Standard to Enhanced Image Upgrade License

#### Optional 10 Gbps SFP+ Direct Attach Cables

DEM-CB1005	10 Gigabit SFP+ 1m Direct Attach Cable
DEM-CB3005	10 Gigabit SFP+ 3m Direct Attach Cable
DEM-CB7005	10 Gigabit SFP+ 7m Direct Attach Cable

#### Optional Redundant Power Supplies

DPS-500A	140 W Redundant Power Supply for DGS-3620-28TC, DGS-3620-28SC and DGS-3620-52T
DPS-700	589 W Redundant Power Supply for DGS-3620-28PC and DGS-3620-52P

#### Optional Management Software

DV-700	D-View 7 Network Management System
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### Key Series Features

- Physical stack of up to 12 units, up to 80 Gbps full-duplex stacking bandwidth
- Optional external redundant power supply
- 802.1p priority queues/ multi-layer CoS
- Loopback Detection (LBD)
- L2/L3/L4 multi-layer access control
- Virtual stack of up to 32 units using Single IP Management (SIM)
- 802.1X, Guest VLAN
- IP multicast support for bandwidth-intensive applications
- SSH/SSL support
- Flexible software options with Standard Image (SI) and Enhanced Image (EI) for advanced features
- PoE/PoE+ models available
- Telnet
- Command line interface (CLI)
- Web-based GUI
- RMON support
- Traffic segmentation
- Supports Microsoft NAP
- D-Link SafeGuard Engine

XSTACK

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Energy Efficient Ethernet

MODEL		DGS-3620-28TC	DGS-3620-28SC	DGS-3620-28PC	DGS-3620-52T	DGS-3620-52P
Interfaces	Fast Ethernet					
	Gigabit Ethernet	20		20 (PoE)	48	48 (PoE)
	Gigabit SFP Slots		20			
	10/100/1000BASE-T/SFP Combo Slots	4	4	4 (PoE)		
	10 Gigabit SFP+ Slots	4	4	4	4	4
General Features	Stackability	Virtual Stacking of up to 32 Units; Physical Stacking of up to 12 Units				
	Stacking Speed	Up to 80 Gbps full duplex				
	Switching Capacity	128 Gbps	128 Gbps	128 Gbps	176 Gbps	176 Gbps
	Max Packet Forwarding Rate	95.24 Mpps	95.24 Mpps	95.24 Mpps	130.95 Mpps	130.95 Mpps
	Packet Buffer Memory	2 MB				
	MAC Address Table	32,000				
	Flow Control	IEEE 802.3x Flow Control, HOL Blocking Prevention				
	Jumbo Frame	13000 Bytes				
Layer 2 Features	Loop Protection	802.1D, 802.1w, 802.1s, ERPS				
	803.2ad Link Aggregation	Maximum 32 Groups per Device. 8 Gigabit Ports Per Group / 2 x 10 Gigabit Ports per Group				
	Port Mirroring	One-to-One, Many-to-One, Mirroring for Tx/Rx/Both, Flow-Based (ACL) Mirroring, RSPAN				
	Loopback Detection	•				
	Cable Diagnostics	•				
	Layer 3 Features	IP Interfaces	256			
Routing Protocols		Static, RIP v1/v2, RIPng*, OSPF v2, OSPF v3*, BGP v4*, BGP+*				
Policy-Based Routing		•				
Route Balancing		ECMP/WCMP				
IPv6 Tunneling		Static*, ISATAP*, GRE*, 6to4*				
RRRP		•				
Virtual LAN (VLAN)	VLANs	4096 Static				
	GVRP	4096 Dynamic				
	Protocol VLAN (802.1v)	•				
	Double VLAN (Q-in-Q)	Port-Based / Selective				
Layer 3 Multicasting	Groups	2000				
	Protocols	IGMP V1 / V2 / V3, PIM-SM, PIM-SM v6*, PIM-DM, PIM Spare-Dense, DVMRP v3*				
Quality of Service (QoS)	Standard	802.1p				
	Number of Queues	8				
	Mode	Strict / WRR / Strict+WRR / WRED				
	CoS Handling	Switch Port, VLAN ID, 802.1p Priority Queue, MAC, IPv4/v6 Address, DSCP, TCP/UDP Port, Protocol Type, IPv6 Traffic Class, IPv6 Flow Label, User-Defined Packet Content				
	Bandwidth Control	Port-Based (Ingress/Egress, min. granularity 8 kbps), Flow-Based (Ingress, min. granularity 8 kbps)				
Security	STP Security	BPDU Filtering, Root Restriction				
	Port Security	•				
	DoS Attack Prevention	•				
	Storm Control	Broadcast / Multicast / Unicast				
	IP-MAC-Port Binding	•				
	DHCP Server Screening	•				
	ARP Spoofing Prevention	•				
	Traffic Segmentation	•				
	D-Link SafeGuard Engine	•				
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN/ACL/QoS Assignment				
	Web-Based Access Control (WAC)	Port-Based, Host-Based, Dynamic VLAN/ACL/QoS Assignment				
	MAC-Based Access Control (MAC)	Port-Based, Host-Based, Dynamic VLAN/ACL/QoS Assignment				
	Network Access Protection (NAP)	802.1x NAP, DHCP NAP				
	Guest VLAN	•				
	Switch Access	RADIUS / TACACS+, 4-Level User Account				
Access Control Lists (ACL)	Rules	Ingress: 6 Profiles, 256 Rules per Profile; Egress: 4 Profiles, 128 Rules per Profile				
	ACL Handling	VLAN ID, 802.1p Priority, MAC, IPv4/v6 Address, DSCP, TCP/UDP Port, Protocol Type, Ether Type, IPv6 Traffic Class, IPv6 Flow Label, User-Defined Packet Content				
	Time-Based ACL	•				
Power over Ethernet	Standard			802.3af (PoE) 802.3at (PoE+)		802.3af (PoE) 802.3at (PoE+)
	PoE Ports			24		48
	PoE Power Budget			370 W (760 W with DPS-700 RPS)		370 W (760 W with DPS-700 RPS)
	Time-Based PoE			•		•
Management	Switch Access	Web GUI, Telnet				
	sFlow	•				
	SNMP	v1 / v2c / v3				
	DHCP	Server, Client, Relay				
	RMON	v1 / v2				
	TFTP Client	•				
	Syslog	•				
Physical and Environment	Power Supply	Internal with RPS Option				
	Maximum Power Consumption	45.1 W	43.4 W	502.2 W	76 W	517.1 W
	Power-Saving Technology	Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet				
	Operating Temperature	0°C to 50°C				
	Operating Humidity	0% to 90% RH Non-Condensing				
	Dimensions (W x D x H)	441 x 310 x 44 mm	441 x 310 x 44 mm	441 x 310 x 44 mm	441 x 310 x 44 mm	441 x 310 x 44 mm
Modules / Transceivers	Mean Time Between Failures (MTBF)	292,976 Hours	298,263 Hours	236,811 Hours	247,929 Hours	225,645 Hours
	10 Gigabit SFP+ Transceivers	DEM-431XT, DEM-431XT-DD, DEM-432XT, DEM-432XT-DD, DEM-433XT, DEM-433XT-DD, DEM-434XT, DEM-435XT, DEM-435XT-DD, DEM-436XT-BXU, DEM-436XT-BXD				
	SFP Transceivers	DEM-210, DEM-211, DEM-220T, DEM-220R, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712				



# Layer 3 10 Gigabit Stackable Managed Switches

## DXS-3600 Series

The D-Link DXS-3600 Series offers two compact, high-performance switches that feature wire-speed 10 Gigabit Ethernet switching, routing, and very low latency. The 1U height and selectable front-to-back or back-to-front air flow make the DXS-3600 Series suitable for enterprise and campus aggregation network environments, while the 8 or 24 fixed 10 Gigabit SFP+ ports and can accommodate more ports with the addition of an expansion module. The expansion modules not only provide extra 10G SFP+ ports, but also increase the flexibility of physical stacking, or low-cost 10GBASE-T connections for different applications.



## Principle Product Features

### DXS-3600-16S

- 10 Gigabit SFP+ ports x 8
- Open expansion slot x 1
- Switching capacity of up to 480 Gbps
- Up to 160G stacking bandwidth with four devices functioning together as one
- Hot-swappable power modules for power redundancy and load sharing
- Hot-swappable fan trays with airflow control provide cooling redundancy

### DXS-3600-32S

- 10 Gigabit SFP+ ports x 24
- Open expansion slot x 1
- Switching capacity of up to 960 Gbps
- Up to 480G stacking bandwidth with four devices functioning together as one
- Hot-swappable power modules for power redundancy and load sharing
- Hot-swappable fan trays with airflow control provide cooling redundancy

## Optional Modules & Accessories

### Optional Software Image Upgrade Licenses

DXS-3600-32S-SE-LIC	DXS-3600-32S standard to enhanced image upgrade license
DXS-3600-16S-SE-LIC	DXS-3600-16S standard to enhanced image upgrade license

### Optional Expansion Modules

DXS-3600-EM-4XT	4-Port 10 GBASE-T Module
DXS-3600-EM-8T	8-Port 10/100/1000BASE-T Module
DXS-3600-EM-Stack	2-Port 120G CXP Stacking Module (for DXS-3600-32S only)
DXS-3600-EM-4QXS	4-Port 40G QSFP+ Module
DXS-3600-EM-8XS	8-Port 10G SFP+ Module

### Optional Redundant/Replacement Power Supplies

DXS-3600-PWR-FB	300W AC Power Supply with front-to-back airflow
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### Optional Redundant/Replacement Fan Tray

DXS-3600-FAN-FB	Fan Module with front-to-back airflow
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### Optional 120G Stacking Cable

DEM-CB50CXP	DXS-3600-32S Stacking Cable for use with DXS-3600-EM-Stack (CXP to CXP 50cm)
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### Optional 10 Gbps SFP+ Direct Attach Cables

DEM-CB100S	10 Gigabit SFP+ 1 m Direct Attach Cable
DEM-CB300S	10 Gigabit SFP+ 3 m Direct Attach Cable
DEM-CB700S	10 Gigabit SFP+ 7 m Direct Attach Cable
DEM-CB100QXS	40 Gigabit QSFP+ 1 m Direct Attach Cable
DEM-CB300QXS	40 Gigabit QSFP+ 3 m Direct Attach Cable
DEM-CB100QXS-4XS	40 Gigabit QSFP+ to 40 Gigabit QSFP+ 1 m Direct Attach Cable

### Optional Management Software

DV-700	D-View 7 Network Management System
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## Key Series Features

- 1x 10/100/1000BASE-T Ethernet port for out-of-band remote management
- IEEE 802.1Qbb Priority-based Flow Control (PFC)
- IEEE 802.1Qaz Enhanced Transmission Selection (ETS)
- IEEE 802.1Qau Congestion Notification (QCN)
- NLB
- MPLS (Enhanced Image)
- OSPF/BGP (Enhanced Imaged)
- ERPS
- Three Color Marker (trTCM/srTCM)
- Congestion Control
- Access Control List (ACL)
- Port security
- Traffic segmentation
- Broadcast/multicast/unicast storm control
- DoS attack prevention
- Web-based GUI
- SSH
- SNMP & RMON
- LLDP/LLDP-MED
- L2/L3/L4 multi-layer access control lists
- 802.1x user authentication via TACACS+ and RADIUS servers

STACK

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## What does SFP mean?

SFP stands for Small Form-Factor Pluggable, and refers to the transceivers used to connect networking devices such as switches or routers to fibre-optic or copper cable in order to expand a data communications network, often over several kilometres. Generally speaking they are hot-pluggable, meaning that you do not need to power-off the device when plugging or unplugging the cable, and operate at up to Gigabit Ethernet speeds. For faster connections, Enhanced SFP, known as SFP+, offers rates of up to 10 Gbps.



MODEL		DXS-3600-16S	DXS-3600-32S
Interfaces	10 Gigabit SFP+ Slots	8	24
	Expansion Slot	1	
General Features	Stackability	Virtual Stacking of up to 32 Units; Physical Stacking of up to 4 Units	
	Stacking Bandwidth	DXS-3600-EM-4QXS: 160G	DXS-3600-EM-Stack: 480G DXS-3600-EM-4QXS: 160G
	Switching Capacity	480 Gbps	960 Gbps
	Packet Forwarding Rate	357.14 Mpps	714.28 Mpps
	Packet Buffer Memory	9 MB	
	MAC Address Table	128,000	
	Flow Control	IEEE 802.3x Flow Control, HOL Blocking Prevention	
Layer 2 Features	803.2ad Link Aggregation	Max 32 Groups per Device , 12 Ports per Group	
	Port Mirroring	One-to-One, Many-to-One, Mirroring for Tx/Rx/Both, RSPAN	
	Jumbo Frame	12000 Bytes	
Layer 3 Features	ARP	512 Static ARP	
	IP Interface	256	
	Routing Protocols*	RIP v1/v2, RIPng, OSPF v2/v3, BGPv4, Policy-based Routing, Route Redistribution, Bidirectional Forwarding Detection (BFD)	
	Static Routing	Max. 1K IPv4 entries, Max 512 IPv6 entries, Secondary Route, Equal Cost/Weighted Cost Multi-Path Route	
Virtual LAN (VLAN)	VLANs	4096 Static	
	GVRP	4096 Dynamic	
	Subnet-based VLAN	•	
	Double VLAN (Q-in-Q)	Port-Based, Selective	
	Port-based VLAN	•	
	MAC-based VLAN	•	
Layer 2 Multicasting	Groups	4K	
	Protocols	IGMP Snooping v1 / v2 / v3, MLD Snooping v1 / v2	
Quality of Service (QoS)	Standard	802.1p	
	No. of Queues	8 per port	
	Mode	Strict / WRR / Strict + WRR / RR / WDRR	
	CoS Handling	802.1p Priority Queues ,DSCP, VLAN ID, MAC, IPv4/v6 address, IPv6 Traffic class, IPv6 flow label, TCP/UDP port	
	Bandwidth Control	Port-Based (Ingress/Egress, min. granularity 8 kbps) Flow-Based (Ingress/Egress, min. granularity 8 kbps) Per Queue Bandwidth Control (min. granularity 8 kbps)	
Security	STP Security	BPDU Restriction, Root Restriction	
	Port Security	•	
	DoS Attack Prevention	•	
	Storm Control	Broadcast / Multicast / Unicast	
	IP-MAC-Port Binding	•	
	DHCP Server Screening	•	
	ARP Spoofing Prevention	•	
	Traffic Segmentation	•	
D-Link SafeGuard Engine	•		
Data Centre Features	DCB Standards Supported	IEEE 802.1Qbb Priority-based Flow Control (PFC), IEEE 802.1Qaz Enhanced Transmission Selection (ETS), IEEE 802.1Qau Congestion Notification (QCN), NLB	
Enhanced Image (EI) Additional Features*	L3 Multicasting	Multicast Table Size: 2K, IGMP v1, v2, v3, PIM-SM, PIM-DM, PIM-Sparse-Dense Mode, PIM-SSM, DVMRP v3, MLD v1/v2	
	MPLS	LDP, MPLS LSP trigger filtering, MPLS label-forwarding, MPLS QoS, MPLS ping and traceroute, L2 protocol tunneling through PW, VPWS, VPLS, PW Redundancy	
	L3 Features	IPv6 Tunneling (Static, ISATAP, GRE, 6to4), VRRP	
	L3 VPN	MPLS/BGP L3 VPN, VRF-Lite, MP-BGP, VRF aware application	
Authentication, Authorisation and Accounting (AAA)	L3 Routing	Supports 16K hardware routing entries shared by IPv4/IPv6 (max. 16K IPv4 entries, max. 8K IPv6 entries), Supports 8K hardware L3 forwarding entries shared by IPv4/IPv6 (max. 8K IPv4 entries, max. 4K IPv6 entries), RIP (RIP v1/v2, RIPng), OSPF (OSPF v2, OSPF v3, OSPF Passive Interface, Stub/NSSA Area, OSPF Equal Cost Route), BGPv4, Route Redistribution, IP Directed Broadcast, Policy Based Route	
	802.1x Authentication	Port-based, Host-based, Dynamic VLAN/ACL/QoS Assignment	
Access Control Lists (ACL)	Access Control	Web-based Access Control (WAC), MAC-based Access Control (MAC)	
	Guest VLAN	•	
	Max ACL entries	1792 Ingress ACL Rules, 1k Egress ACL Rules, 1K VLAN ACL Rules	
Management	ACL Handling	802.1p Priority, VLAN ID, MAC, Ether Type, IPv4/v6 Address, DSCP, Protocol Type, TCP/UDP Port Number, IPv6 Traffic Class, IPv6 Flow Label	
	Web-based GUI	•	
	Command Line Interface (CLI)	•	
	Telnet, TFTP Client	•	
	SNMP	•	
	SSH	•	
	RMON	v1 / v2	
	RADIUS/TACACS+	•	
LLDP/LLDP-MED	•		
Physical and Environment	Power Supply	Internal	
	Maximum Power Consumption	74.3 W	116.8 W
	Number of Fans	3	
	Operating Temperature	0°C to 45°C	
	Operating Humidity	0% to 95% RH Non-Condensing	
	Dimensions (W x D x H)	440 x 506 x 44 mm	
Modules / Transceivers	Mean Time Between Failures (MTBF)	138,345 Hours	134,330 Hours
	10 Gigabit SFP+ Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712	
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712	

\* Enhanced Image (EI) only

# xStack Chassis Switches

## DGS-6600 Series

For a customisable solution based on your business needs, D-Link's DGS-6600 modular chassis series allows you to implement a solution-specific switch with multiple modules. The DGS-6600 is a Layer 3 backbone chassis-based Gigabit switch that provides everything a business needs for a reliable network. This 4-Slot chassis offers a 576 Gbps switch fabric capacity, supporting wire speed L2/L3 packet switching in dynamic or static environments. Some of the features include a high port density, with L2/L3/L4 Class of Service (CoS) and Access Control Lists (ACL), QoS, Link Aggregation, hot-swappable line cards with redundant power supply, and traffic monitoring. Designed for performance and flexibility, this chassis switch offers you the price/performance ratio necessary to deploy a cost-effective enterprise backbone network.



### Principle Product Features

#### DGS-6604-SK

- 4-slot chassis starter kit
- I/O module slots x 3
- CPU module slot x 1
- Switching capacity of up to 576 Gbps
- Up to 144 x Gigabit ports
- Up to 48 x 10 Gigabit ports
- Built-in replaceable fan module
- Built-in dust filter
- Optional redundant power supply
- Includes:
  - DGS-6604 4-Slot Chassis
  - DGS-6600-CM Control Module
  - DGS-6600-PWR 850W AC Power Supply

#### DGS-6608-SK

- 8-slot chassis starter kit
- I/O module slots x 6
- CPU module slots x 2
- Loadsharing/redundant switching capacity of up to 1.152 Tbps
- Up to 288 x Gigabit ports
- Up to 96 x 10 Gigabit ports
- Built-in replaceable fan module
- Built-in dust filter
- Optional redundant power supply
- Includes:
  - DGS-6608 8-Slot Chassis
  - DGS-6600-CM-II Control Module
  - DGS-6600-PWR 850W AC Power Supply

### Available Modules

#### 10 GIGABIT MODULES

##### DGS-6600-24S2XS

12-Port SFP and 12-Port Combo (10/100/1000BASE-T/SFP Module) and 2-Port 10G SFP+ Module

##### DGS-6600-16XS-D

16-Port 10 Gigabit SFP+ Module with MPLS function

#### GIGABIT MODULES

##### DGS-6600-48T

48-Port 10/100/1000BASE-T Module

##### DGS-6600-48TS

24-Port 10/100/1000BASE-T and

24-Port SFP Module

##### DGS-6600-48S

48-Port SFP Module

#### PoE MODULES

##### DGS-6600-48P

48-Port 10/100/1000BASE-T PoE Module

#### CPU MODULES

##### DGS-6600-CM-II

Control Module for DGS-6604 & DGS-6608

#### OPTIONAL REDUNDANT/ POWER SUPPLY MODULES

##### DGS-6600-PWR

850W AC Power Supply for DGS-6604 and DGS-6608

#### REPLACEMENT FAN TRAY

##### DGS-6600-FAN

Smart Fan Module for DGS-6604

##### DGS-6600-FAN-II

Smart Fan Module for DGS-6608

### Key Series Features

- 4-/8-slot modular chassis
- Hot-swappable line cards
- Optional redundant power supply
- 4000 IP interfaces
- 32,000 MAC addresses per module
- 4096 static VLANs
- 8 priority queues
- 128-trunk group, 8 ports per group
- Telnet/console CLI
- SNMP v1,v2c,v3/RMON
- TFTP client
- Web GUI
- SYSLOG



MODEL		DGS-6604-SK	DGS-6608-SK
INTERFACES	Gigabit Ethernet	3 Slots available for any combination of Ports 1 Slot for CPU Module	6 Slots available for any combination of Ports 2 Slots for CPU Module
	SFP Slots		
	10/100/1000BASE-T/SFP Combo Slots		
	10 Gigabit Slots		
General Features	Stackability		
	Stacking Bandwidth		
	Switching Capacity	576 Gbps	1.152 Tbps
	Packet Forwarding Rate	428.57 Mpps	857.14 Mpps
	Packet Buffer Memory	1.5 MB	
	MAC Address Table	32,000 per Module	
	Flow Control	IEEE 802.3x Flow Control, HOL Blocking Prevention	
	Jumbo Frame	9732 Bytes	
Layer 2 Features	Loop Protection	802.1D, 802.1w, 802.1s	
	803.2ad Link Aggregation	128 Groups, 8 Ports per Group	
	Port Mirroring	One-to-One, Many-to-One, Support Mirroring for TX/RX/Both, Flow-Based (ACL) Mirroring, RSPAN	
	Loopback Detection	•	
	Cable Diagnostics	•	
Layer 3 Features	IP Interfaces	4K	
	Routing Protocols	RIP v1/v2, RIPng, OSPF v2/v3, BGP v4, BGP+*, Policy-based Routing	
	Static Routing	256 static entries for IPv4/IPv6	
	Route Balancing	ECMP/WCMP*	
	IPv6 Tunneling	Static, ISATAP, 6to4	
	VRRP, ARP Proxy	•	
Virtual LAN (VLAN)	VLANs	4096 Static	
	GVRP	256 Dynamic	
	Protocol VLAN (802.1v)	•	
	Double VLAN (Q-in-Q)	Port-Based / Selective	
Layer 2/3 Multicasting	Groups	2K	
	Protocols	IGMP Snooping v1 / v2 / v3, MLD Snooping v1 / v2, PIM-SM, PIM-DM, PIM Spare-Dense*, DVMRP v3	
Quality of Service (QoS)	Standard	802.1p, DSCP	
	Number of Queues	8	
	Mode	Strict / WRR / Strict+WRR / DRR / WDRR	
	CoS Handling	Switch Port, 802.1p Priority Queues, DSCP, VLAN, MAC, IP address, IPv6 Traffic Class, IPv6 Flow Label, TCP/UDP Port, Protocol Type	
	Bandwidth Control	Port-Based (Ingress/Egress, min. granularity 64 kbps)	
Security	STP Security	BPDU Filtering*, Root Restriction	
	Port Security	•	
	DoS Attack Prevention	•	
	Storm Control	Broadcast / Multicast / Unicast	
	IP-MAC-Port Binding	•	
	DHCP Server Screening	•	
	ARP Spoofing Prevention	•*	
	Traffic Segmentation	•	
	D-Link SafeGuard Engine	•	
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN/ACL/QoS Assignment	
	Web-Based Access Control (WAC)	Port-Based, Host-Based, Dynamic VLAN/ACL/QoS Assignment*	
	MAC-Based Access Control (MAC)	Port-Based, Host-Based, Dynamic VLAN/ACL/QoS Assignment*	
	Network Access Protection (NAP)	•*	
	Guest VLAN	•	
Access Control Lists (ACL)	Switch Access	RADIUS / TACACS+, 3-Level User Account	
	Rules	(number of entries depending on installed Modules)	
	ACL Handling	802.1p Priority, VLAN ID, MAC, Ether Type, IP, IPv6 Traffic Class, IPv6 Flow Label, DSCP, TCP/UDP Port, Protocol Type	
Power over Ethernet	Time-Based ACL	•	
	Standard	802.3af (PoE)	
	PoE Ports	48-Port PoE Module (DGS-6600-48P)	
	PoE Power Budget	586-2217 W (dependent on number of DGS-6600-PWRs installed)	
Management	Time-Based PoE	•	
	Switch Access	Web GUI, Telnet, Console	
	sFlow	•	
	SNMP	v1 / v2c / v3	
	DHCP	Server, Client, Relay	
	RMON	v1	
	TFTP Client	•	
Syslog	•		
Physical and Environment	Power Supply	Internal, Redundant	
	Maximum Power Consumption	Dependent on Installed Modules	
	Power-Saving Technology	Green Ethernet	
	Operating Temperature	0°C to 50°C	
	Operating Humidity	10% to 90% RH Non-Condensing	
	Dimensions (W x D x H)	445x 470 x 280 mm	445 x 470 x 500 mm
Modules / Transceivers	Mean Time Between Failures (MTBF)	Dependent on installed Modules	
	10 Gigabit SFP+ Transceivers	DEM-431XT, DEM-431XT-DD, DEM-432XT, DEM-432XT-DD, DEM-433XT, DEM-433XT-DD, DEM-434XT, DEM-435XT, DEM-435XT-DD, DEM-436XT-BXU, DEM-436XT-BXD	
	SFP Transceivers	DEM-210, DEM-211, DEM-220T, DEM-220R, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DGS-712, DEM-330T, DEM-330R, DEM-331T, DEM-331R	

\* Implemented in future firmware upgrade



# D-View 7 Network Management System



The D-View 7 Network Management System (DV-700) is a comprehensive standards-based management tool designed to centrally manage, in a consistent manner, critical network characteristics such as availability, reliability, resilience and security. Flexible and versatile, D-View 7 uses cutting-edge web technology to provide a comprehensive software toolbox that can be accessed without the need to install separate software.

## Flexible Architecture

D-View 7 is organised into a server-probe architecture, which simplifies data collection across complex networks. Monitoring and configuring multiple devices at remote locations, across the Internet, or using Network Address Translation (NAT) methodology is no longer an issue. With D-View 7, remotely deployed probes will automatically tunnel home, allowing for the management of devices that cannot be directly accessed using standard Simple Network Management Protocol (SNMP). When a device is selected for management, D-View 7 probes will relay the command to the devices and then report back its data to the D-View 7 server.

## Simplify Network Management

D-View 7 supports various predefined configuration templates which help users easily manage multiple devices. For complex configurations, D-View 7 also has the ability to deploy Command Line Interface (CLI) scripts across multiple devices simultaneously. This allows D-View 7 to support a wide range of configuration features and virtually any device as long as it supports CLI settings. With a highly customisable scheduling system, D-View 7 allows users to assign tasks to be issued in off-peak hours or any other planned-maintenance time frame. Users thus have peace of mind, knowing that routine maintenance tasks and configurations will be automatically managed and monitored by D-View 7's event notification system. D-View 7 also supports periodic tasks which can be run daily, weekly, monthly or to some other set schedule.

## Key Series Features

- Simplify management tasks
- Supports SNMP v1, v2c, v3
- Supports device auto-discovery
- Supports scheduled and periodic task management
- Supports event notification and event escalation
- Supports SNMP trap and syslog collection
- Supports batch configuration and is capable of configuring multiple devices at a time
- Flexible architecture
- Designed with a server-and-probe architecture
- Supports management of devices behind a firewall, NAT, or in remote sites without a VPN
- Visualisation
- Easy-to-understand and easy-to-configure dashboard
- Customisable chart system for displaying data
- Supports auto-generate network topology
- Supports real-time device status on topology
- Supports real-time device rack and panel simulation
- Supports smart and managed switches, unified switches, unified access points, wireless controllers, wireless access points, etc
- Supports third-party devices
- Supports third-party device based on SUID and manages them using CLI scripts

## Product Highlights

### Comprehensive Network Management

Manage your network effectively with useful tools and features such as Batch Configuration, SNMP, and Flexible Command Line Dispatch.

### Hassle-Free Network Management

Graphical and detailed dashboard provides a centralised and convenient way to manage and monitor your network.

### Extensive Device Support

Supports a large number of devices including smart and managed switches, unified access points, and wireless controllers, as well as non-D-Link devices.

## Manage Third-Party Devices

Network administrators can customise the SOID and related information of virtually any third-party device to let D-View 7 identify and manage them. D-View 7 can then check the health status of those devices, issue CLI commands, and undertake the standard management and monitoring. Combined with the new D-View 7 graphical dashboard, network administrators can get near-real-time feedback on the status of their network.

## Enhanced Trap and Syslog Analysis

D-View 7 also functions as a trap and syslog server which can collect all of the trap or syslog data from multiple devices across a network. This gives network administrators a centralised place to collect important data, which can then be searched easily from within D-View 7. The advanced search system lets network administrators set keyword combinations, and generate alarms based on events that are reported in the trap or syslog feature.

## TECHNICAL SPECIFICATIONS

### GENERAL

<b>Architecture</b>	Supports standard server client web architecture Supports multi-tenant architecture	Supports probe design to collect data from remote site without VPN or behind NAT
<b>User Management</b>	Supports read-write and read-only privileges by modules	
<b>Internationalization</b>	Supported languages: <ul style="list-style-type: none"> <li>English, Simplified Chinese, Traditional Chinese</li> </ul>	

### DISCOVERY

<b>Device Discovery</b>	Supports SNMP v1, v2c, v3 scan Supports IPv4 address range scan	Supports smart scan by neighborhood Supports discover across LAN by probe
<b>Link Discovery</b>	Supports LLDP, FDB based link discovery	
<b>Auto Discovery</b>	Supports periodically discovery with specific time period	

### INVENTORY


<b>Inventory Management</b>	Supports inventory and devices export	Supports device grouping by labels; a device can belong to multiple labels
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### MONITORING

<b>Dashboard</b>	Supports overall system and product summary for wired or wireless devices	Supports customized dashboard
<b>Sensor</b>	Supports following methods to data collection <ul style="list-style-type: none"> <li>SNMP, PING</li> </ul>	
<b>Topology View</b>	Supports auto-topology generation Supports customised topology generation Supports devices status display Supports link status display Supports different structure of topology (tree type, start type)	Supports multi-layer topology for following views Supports customized background image overlay for following views
<b>Panel View</b>	Supports panel and LED status of switches	Supports panel view with stacking switches
<b>Status Polling</b>	Supports multiple polling methods <ul style="list-style-type: none"> <li>Ping, SNMP</li> </ul>	Supports customized polling time for each devices or by group
<b>Event &amp; Notification</b>	Supports customized criteria or threshold to trigger the event based on following rules: <ul style="list-style-type: none"> <li>Value Match</li> <li>Keyword Match</li> <li>Keyword Combination Match</li> </ul>	Supports customized escalation rules Supports email notification to defined users

# SFP/SFP+ Transceivers


## Fast Ethernet SFP Transceivers



MODEL	DEM-210	DEM-211	DEM-220T	DEM-220R
Standard	IEEE 802.3u 100 BASE-FX	IEEE 802.3u 100 BASE-FX	IEEE 802.3ah 100 BASE-BX-D	IEEE 802.3ah 100 BASE-BX-U
Connector	Duplex LC	Duplex LC	Simplex LC	Simplex LC
Fiber Type	Single-Mode		9/125 μm	9/125 μm
	Multi-Mode		50/125 μm 62.5/125 μm	
Wavelength	1310 nm	1310 nm	TX: 1550 nm RX: 1310 nm	TX: 1310 nm RX: 1550 nm
Maximum Distance	15 km	2 km	20 km	20 km
Power	3.3 V	3.3 V	3.3 V	3.3 V
Hot-Pluggable	•	•	•	•

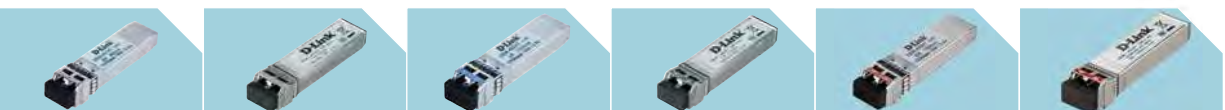
D-Link's Small Form-Factor Pluggable (SFP) and 10 Gigabit Small Form-Factor Pluggable (SFP+) Transceivers help to achieve long-distance data transmission and high-speed communication with single-mode fiber, multi-mode fiber and copper cables. These modules can be easily installed into compatible switches and media converters; please see the switch and media converter comparison tables for relevant compatibility.

## Gigabit Ethernet SFP Transceivers




MODEL	DEM-310GT	DEM-311GT	DEM-312GT2	DEM-314GT	DEM-315GT	DEM-330T	DEM-330R	DEM-331T	DEM-331R	DGS-712
Standard	IEEE 802.3z 1000BASE-LX	IEEE 802.3z 1000BASE-SX	IEEE 802.3z 1000BASE-SX	IEEE 802.3z 1000BASE-LHX	IEEE 802.3z 1000BASE-ZX	IEEE 802.3ah 1000 BASE-BX-D	IEEE 802.3ah 1000 BASE-BX-U	IEEE 802.3ah 1000 BASE-BX-D	IEEE 802.3ah 1000 BASE-BX-U	IEEE 802.3ab 1000BASE-T
Connector	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Simplex LC	Simplex LC	Simplex LC	Simplex LC	RJ-45
Fiber Type	Single-Mode	9/125 μm: 10km		9/125 μm	9/125 μm	9/125 μm	9/125 μm	9/125 μm	9/125 μm	
	Multi-Mode	50/125 μm: 550m 62.5/125 μm: 550m	50/125 μm: 550m 62.5/125 μm: 300m	50/125 μm: 2km 62.5/125 μm: 1km						
Wavelength	1310 nm	850 nm	1310 nm	1550 nm	1550 nm	TX: 1550 nm RX: 1310 nm	TX: 1310 nm RX: 1550 nm	TX: 1550 nm RX: 1310 nm	TX: 1310 nm RX: 1550 nm	
Maximum Distance	10 km / 550m	550 m / 300m	2km / 1km	50 km	80 km	10 km	10 km	40 km	40 km	100m
Power	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V
Hot-Pluggable	•	•	•	•	•	•	•	•	•	•

## 10 Gigabit Ethernet SFP+ Transceivers



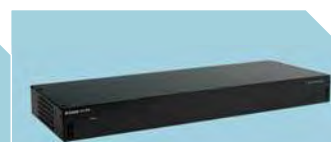
MODEL	DEM-431XT	DEM-431XT-DD	DEM-432XT	DEM-432XT-DD	DEM-433XT	DEM-433XT-DD
Standard	IEEE 802.3ae 10GBASE-SR	IEEE 802.3ae 10GBASE-SR	IEEE 802.3ae 10GBASE-LR	IEEE 802.3ae 10GBASE-LR	IEEE 802.3ae 10GBASE-ER	IEEE 802.3ae 10GBASE-ER
Connector	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC
Fiber Type	Single-Mode		9/125 μm	9/125 μm	9/125 μm	9/125 μm
	Multi-Mode	50/125 μm: 300m 62.5/125 μm: 33m	50/125 μm: 300m 62.5/125 μm: 33m			
Wavelength	850 nm	850 nm	1310 nm	1310 nm	1550 nm	1550 nm
Maximum Distance	300 m / 33m	300 m / 33m	10 km	10 km	40 km	40 km
Power	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V
Hot-Pluggable	•	•	•	•	•	•
Digital Diagnostics Monitoring		•		•		•



MODEL	DEM-434XT	DEM-435XT	DEM-435XT-DD	DEM-436XT-BXD	DEM-436XT-BXU
Standard	IEEE 802.3ae 10GBASE-ZR	IEEE 802.3ae 10GBASE-LRM	IEEE 802.3ae 10GBASE-LRM	IEEE 802.3ae 10GBASE-LR	IEEE 802.3ae 10GBASE-LR
Connector	Duplex LC	Duplex LC	Duplex LC	Simplex LC	Simplex LC
Fiber Type	Single-Mode			9/125 μm	9/125 μm
	Multi-Mode		50 μm, 400MHz-km: 100m 50 μm, OM2, 500MHz-km: 220m 50 μm, OM3, 2000MHz-km: 220m 62.5/125 μm: 220m	50 μm, 400MHz-km: 100m 50 μm, OM2, 500MHz-km: 220m 50 μm, OM3, 2000MHz-km: 220m 62.5/125 μm: 220m	
Wavelength	1550 nm	1310 nm	1310 nm	TX: 1330 nm RX: 1270 nm	TX: 1270 nm RX: 1330 nm
Maximum Distance	80 km	220m	220m	20 km	20 km
Power	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V
Hot-Pluggable	•	•	•	•	•
Digital Diagnostics Monitoring			•		

# Redundant Power Supplies

Redundancy, in networking terms, is essentially the provision of a back-up system at component level such that an individual failure will not prove critical. Redundant power supplies provide battery back-up power so that, should the mains supply fail, they kick in automatically to keep your switch(es) running and the network fully functional. The RPS you choose will need to be based upon the power draw you might need to call on, dependent on the switch, and any PoE (Power over Ethernet) devices, to which you are looking to provide back-up power. One of the advantages of the DPS-700 is that it is designed to improve flexibility in supporting PoE equipment, and it also supports one-plus-one power capabilities, so when cascading the DPS-700 with a device's internal power supply, the power system can provide an additional power budget to the device.



MODEL	DPS-200A	DPS-500A	DPS-700
Output Power	60 W	140 W	589 W
Input Power	90 to 264 V AC	90 to 264 V AC	90 to 264 V AC
Dimensions	172 x 257 x 43 mm	172 x 257 x 43 mm	441 x 199.4 x 44 mm
Mounting Options (see table below)	DPS-800	DPS-800	19in Rack, 1U

COMPATIBLE SWITCHES	DPS-200A	DPS-500A	DPS-700
DGS-3000-10TC *	•	•	
DGS-3000-24TC *	•	•	
DGS-3000-26TC *	•	•	
DGS-3120-24TC	•		
DGS-3120-48TC		•	
DGS-3120-24PC			•
DGS-3120-48PC			•
DGS-3120-24SC	•		
DGS-3420-26SC		•	
DGS-3420-28TC		•	
DGS-3420-28SC		•	
DGS-3420-28PC			•
DGS-3420-52T		•	
DGS-3420-52P			•
DGS-3620-28TC		•	
DGS-3620-28SC		•	
DGS-3620-28PC			•
DGS-3620-52T		•	
DGS-3620-52P			•

\*Require DPS-CB150-2PS v.B1 for connecting DPS-200A/500A and DGS-3000.



MOUNTING OPTIONS	DPS-800
Number of Redundant Power Supply Slots	2
Form Factor	19in Rack, 1.5U
Compatible with Redundant Power Supplies	DPS-200A, DPS-500A



# Switch Cables

## InfiniBand Cable Series

These 10G InfiniBand Twinaxial Cables are designed to support high-speed connections on 10 Gbps Ethernet devices when used with compatible D-Link products. With five models in the range, they are an ideal solution for cost-effective, high-speed networking connectivity between D-Link switches, and other devices within a rack or in adjacent racks.



### Key Series Features

- Full range of features, including high throughput, low latency, quality of service, failover and fully scalable design
- 10 Gigabit Ethernet connectivity
- Connects with InfiniBand (CX4) latch or screw ports for use as a stacking cable or uplink cable at speeds up to 10 Gbps

## SFP+ Direct Attach Cable Series

The 10G Passive SFP+ Twinaxial Direct Attach Cable is designed to support 10 Gigabit Ethernet or Gigabit Ethernet connections between switches with 10 Gbps Gigabit Ethernet uplink; this is much faster than SFP, which only supports 2.5 Gbps Gigabit Ethernet. This series is suitable for very short distances up to seven metres (23 feet), and is ideal for highly cost-effective networking connectivity between switches and servers within a rack or in adjacent racks.



### Key Series Features

- High speeds and low latency result in faster transmissions than other types of cables
- SFP+ connectors on cable mean no need for expensive SFP+ transceivers and fiber cables
- Lower power consumption than other cables like 10BASE-T or 10GBASE-CX4 means savings on energy usage and costs

## 120G Passive CXP Direct Attach Cable

The DEM-CB50CXP 120G Passive CXP Twinaxial Direct Attach Cable carries 12 duplex channels of 10 Gbps data, for up to 120 Gbps in total, making it one of the fastest and highest-density interconnection solutions on the market. This cable is designed to support connections for the latest 100 Gbps Gigabit Ethernet and is intended to be used for physical stacking with the D-Link DXS-3600-32S switch's DXS-3600-EMStack module to provide the best possible performance and network reliability.



### Key Series Features

- Supports up to 120 Gbps of bandwidth over 12 channels of 10G Ethernet
- Perfect for handling heavy network traffic and demand
- Meets the 100 Gigabit Ethernet and InfiniBand 12X QDR specifications for superior high-efficiency networking
- Hot-pluggable
- Special latch design enables easy disengagement



MODEL	DEM-CB50	DEM-CB50CXP	DEM-CB50ICX	DEM-CB100	DEM-CB300
<b>Cable Series Type</b>	InfiniBand	CXP Direct Attach	InfiniBand	InfiniBand	InfiniBand
<b>Standard</b>	IEEE802.3ak 10GBASE-CX4	SFP MSA	IEEE802.3ak 10GBASE-CX4	IEEE802.3ak 10GBASE-CX4	IEEE802.3ak 10GBASE-CX4
<b>Device Rate</b>	10 Gbps	120 Gbps	10 Gbps	10 Gbps	10 Gbps
<b>Connector Type</b>	Screw-Type at Both Ends	CXP Cable Assembly	1 x Screw-Type / 1 x Latch	Screw-Type at Both Ends	Screw-Type at Both Ends
<b>Wire AWG</b>	28	30	28	28	28
<b>Minimum Cable Bend Radius</b>		49 mm			
<b>Cable Length</b>	50 cm	50 cm	50 cm	100 cm	300 cm
<b>Voltage</b>	30 V AC	30 V AC	30 V AC	30 V AC	30 V AC
<b>Current</b>	0.5 A	0.5 A	0.5 A	0.5 A	0.5 A
<b>Operating Temperature</b>	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
<b>Connectivity</b>	Physical Stacking Cable or Uplink Cable for DGS-3120 Series	Physical Stacking Cable for DXS-3600-32S Switch's DXS-3600-EM-Stack Module	Connecting Cable Between DGS-3120 Series and DMC-805X	Physical Stacking Cable or Uplink Cable for DGS-3120 Series	Physical Stacking Cable or Uplink Cable for DGS-3120 Series



MODEL	DEM-CB100S	DEM-CB300S	DEM-CB700S
<b>Cable Series Type</b>	SFP+ Direct Attach	SFP+ Direct Attach	SFP+ Direct Attach
<b>Standard</b>	SFP MSA	SFP MSA	SFP MSA
<b>Device Rate</b>	10 Gbps	10 Gbps	10 Gbps
<b>Connector Type</b>	SFP+ Cable Assembly	SFP+ Cable Assembly	SFP+ Cable Assembly
<b>Wire AWG</b>	30	30	24
<b>Minimum Cable Bend Radius</b>	23.5 mm	23.5 mm	23.5 mm
<b>Cable Length</b>	100 cm	300 cm	700 cm
<b>Voltage</b>	30 V AC	30 V AC	30 V AC
<b>Current</b>	0.5 A	0.5 A	0.5 A
<b>Operating Temperature</b>	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
<b>Connectivity</b>	Recommended for use only with D-Link Switching Products	Recommended for use only with D-Link Switching Products	Recommended for use only with D-Link Switching Products

# Media Converters

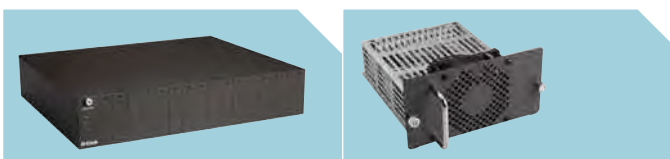
Media converters act as the link point to join copper and fiber connections together, in other words to connect 10/100/1000BASE-T copper to fiber (or vice versa) in order to enable exceedingly rapid network data traffic at enterprise level. They act as a useful conduit when expanding a network, as existing copper-cable-based switches do not have to be replaced but can be expanded upon into a fiber network through the use of a D-Link Media Converter.



MEDIA CONVERTERS	DMC-300SC	DMC-5155C	DMC-530SC	DMC-700SC	DMC-805G	DMC-805X
<b>Standards</b>	10/100BASE-TX 100BASE-FX	10/100BASE-TX 100BASE-FX	10/100BASE-TX 100BASE-FX	1000BASE-T 1000BASE-SX	IEEE 802.3ab IEEE-802.3z	IEEE 802.3ak IEEE-802.3ae IEEE-802.3aq
<b>Connectors</b>	SC / RJ45	SC / RJ45	SC / RJ45	SC / RJ45	RJ45 / SFP	CX4 / SFP+
<b>Data Rate</b>	100 Mbps	100 Mbps	100 Mbps	1 Gbps	1 Gbps	10 Gbps
<b>Fiber Type</b>	Multi-Mode	Single-Mode	Single-Mode	Multi-Mode	Single-Mode / Multi-Mode	Single-Mode / Multi-Mode
<b>Fiber Wavelength</b>	1300 nm	1310 nm	1310 nm	850 nm	Depends on SFP Transceivers	Depends on SFP+ Transceivers
<b>Maximum Distance</b>	2 km	15 km	30 km	550 m	Depends on SFP Transceivers	Depends on SFP+ Transceivers



MEDIA CONVERTERS	DMC-8105C	DMC-1530SC	DMC-1580SC	DMC-920	DMC-1910
<b>Standards</b>	1000BASE-T 1000BASE-LX	10/100BASE-TX 100BASE-FX	10/100BASE-TX 100BASE-FX	10/100BASE-TX 100BASE-FX	1000BASE-T 1000BASE-LX
<b>Connectors</b>	SC / RJ45	SC / RJ45	SC / RJ45	SC / RJ45	SC / RJ45
<b>Data Rate</b>	1 Gbps	100 Mbps	100 Mbps	100 Mbps	1 Gbps
<b>Fiber Type</b>	Single-Mode	Single-Mode	Single-Mode	Single-Mode	Single-Mode
<b>Fiber Wavelength</b>	1300 nm	1310 nm	1550 nm	DMC-920T: TX: 1550nm, RX: 1310nm DMC-920R: TX: 1310nm, RX: 1550 nm	DMC-1910T: TX: 1550nm, RX: 1310nm DMC-1910R: TX: 1310nm, RX: 1550 nm
<b>Maximum Distance</b>	10 km	30 km	80 km	20 km	15 km



CHASSIS AND ACCESSORIES	DMC-1000	DMC-1001
<b>Description</b>	16-Slot Media Converter Chassis with Internal Power Supply	Redundant Power Supply for DMC-1000

# Power over Ethernet (PoE) Adapters

D-Link's Power over Ethernet (PoE) adapters are designed to help simplify network maintenance and deployment at offices, factories and Wi-Fi hot spots. These adapters allow surveillance cameras and wireless access points to be installed on building rooftops, ceilings or high walls where normal AC outlets may be inaccessible, but where the device itself does not have PoE capability.

On the DPE-301GS, the power comes from a PoE port on the switch, down the Ethernet cable, and then this adapter takes that power and provides it to a standard 5 V DC / 12 V DC outlet, into which the device which needs power is plugged. The DPE-301GI acts in a similar way, but is designed to be used for PoE-equipped end-point devices where the switch does not have PoE capability. The DPE-301GI + DPE-301GS is designed for use where the switch does not have any PoE ports. So you plug in an Ethernet cable, and input power at the switch-end of the cable on the DPE-301GI, then run an Ethernet cable (now carrying PoE power) from the DPE-301GI to the DPE-301GS, where the power is then 'converted' back for use by the device.

## DPE-301GS 5/9/12 V DC PoE Splitter



### Main Features

- Use with a PoE switch
- Supply power to non-PoE devices

### Physical Features

- Supports 802.3af (PoE) and 802.3at (PoE+)
- 10/100/1000BASE-T port
- 5 V DC, 9 V DC and 12 V DC output
- Output selection via DIP switch
- DC Jack Dimension: 5.5 x 5.5 mm or 3.8 x 5.5 mm

## DPE-301GI + DPE-301GS 5/9/12 V DC PoE Kit



### Main Features

- Use without a PoE switch
- Supply power to non-PoE devices

### Physical Features

- DPE-301GI x 1
- DPE-301GS x 1

## DPE-301GI 1-Port Gigabit PoE Injector



### Main Features

- Use without a PoE switch
- Supply power to PoE devices

### Physical Features

- Supports 802.3af (PoE) and 802.3at (PoE+)
- Output: 0.6A at 54 V
- 10/100/1000BASE-T port



# Business Wireless

Wireless technology provides businesses with a flexible and cost-effective way to send and receive data. D-Link's range of Wireless AC and N products provide stable connectivity which is robust enough to be deployed at the very core of your network. Products under this category include Standalone/Managed Access Points, Single Band and Dual-Band Access Points and Antennas.



# Wireless AC

## The World's Fastest Wi-Fi Technology is Here!

Wireless AC is the next generation of Wi-Fi. Designed for much higher speeds, wider coverage and better sustained performance with a larger number of devices so that you get whole coverage, seamless performance on all devices and speeds that are faster!

### Next generation Wi-Fi for businesses

Dubbed 'Wireless AC', '5G' or even 'Gigabit Wi-Fi', 802.11ac delivers at least four\* times the bandwidth of current Wireless N products, with yet more to come. With the ability to handle high-demand business applications, Wireless AC is revolutionising the way businesses utilise their wireless connection around the office.

Everything from sharing larger files, high-definition video conferencing to real-time or scheduled data backups has been made possible with 802.11ac, thanks primarily to the move to the 5 GHz radio spectrum where there is less noise and interference from competing technologies. Moreover, there's just a lot more space available in this band, allowing for up to 19 non-overlapping wireless channels compared to just three with 802.11n. Plus, those channels can be made wider to carry a lot more data, with 80 MHz and ultimately 160 MHz channels available in 802.11ac, compared to 20/40 MHz with 802.11n.

The way in which radio signals are transmitted is also changing. Out go omni-directional antennas, broadcasting every which way they can, in favour of so-called 'beamforming' technology, where the signal is directed at the device it is meant for, further enhancing the boost in Wi-Fi bandwidth.

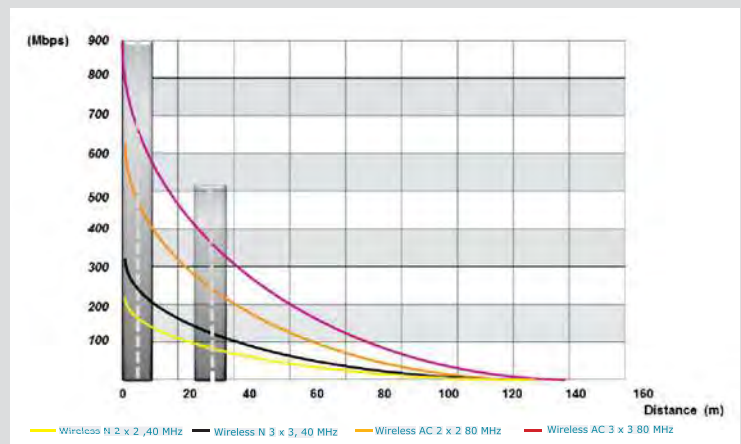
Beamforming also helps to improve range and reliability. The maximum distance supported by Wi-Fi is unchanged at 200-300m, but by concentrating and directing signals, 802.11ac eliminates dead spots, and at the same time, improve signal strength and reliability at all distances.

802.11ac makes it possible to support more devices on the network at the same time, automatically adjusting the wireless signals to provide an optimised connection for each one. Plus, by delivering more data in less time, 802.11ac helps extend battery life on mobile devices, enabling you to get more done between charges.

\* When compared with Wireless N300.



### Why it's time to move from Wireless N to Wireless AC



### Interference

Most mobile devices and wireless routers currently use the 2.4 GHz frequency which slows down the data transfer rate/overall packet flow.



### Congestion

Congestion occurs when too many devices are accessing the network at the same time which slows the speed of the data transfer for everyone.





# Why Wireless AC?

## Exclusive Use of the 5 GHz Frequency

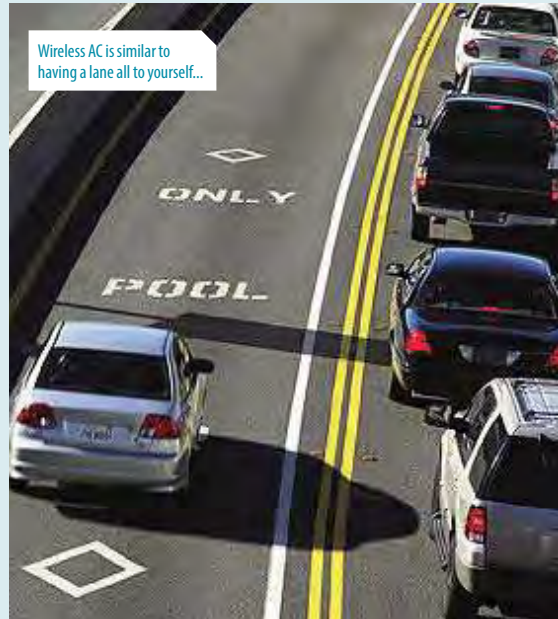
- With so many devices connected to the 2.4 GHz frequency band, interference has reached a point where it can cripple your data flow and speed.
- The 5 GHz frequency band is less common and Wireless AC uses the 5 GHz band exclusively for its transmission. With fewer devices connected, you get less interference and faster speeds.

## Extensibility

- Latest Wireless AC improvements have included standardised 'Beamforming' that synchronises antenna signals to/from the wireless access point for better Wi-Fi performance and range.

## Wider Channel Bandwidth

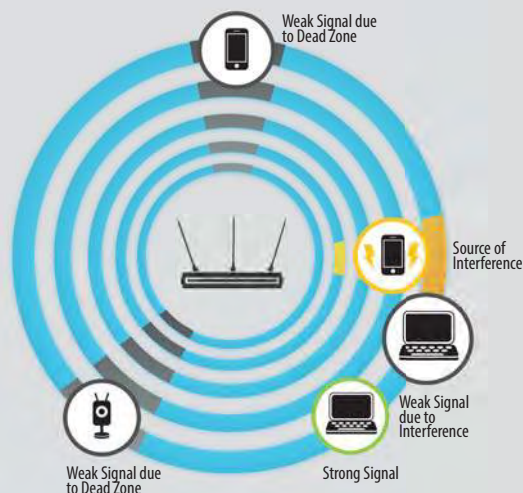
- Previous wireless standards had bands ranging from 20 MHz to 40 MHz. But with Wireless AC, the band has increased to 80 MHz, meaning a wider band for your data to pass through at faster speeds.
- It also offers non-overlapping and higher bandwidth for higher performance and increased signal reliability.



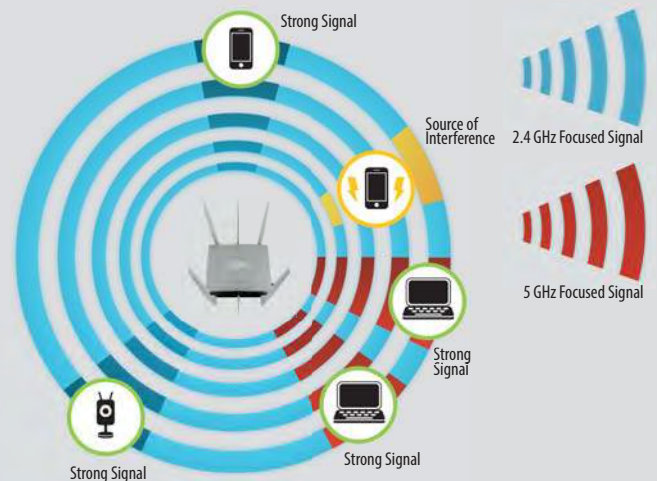
## AC SmartBeam™

- AC SmartBeam™ is D-Link's optimised beamforming technology, which targets devices with weak reception by sending a focused signal to the device. This ensures that all the devices within the network get optimised wireless connectivity, no matter where they are.

### With a Standard Access Point...



### With a D-Link AC SmartBeam™ Access Point

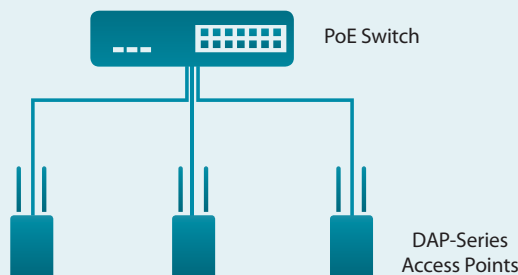


# Which Wi-Fi Solution suits your needs?

## DAP-Series Access Points

### Standalone Operation

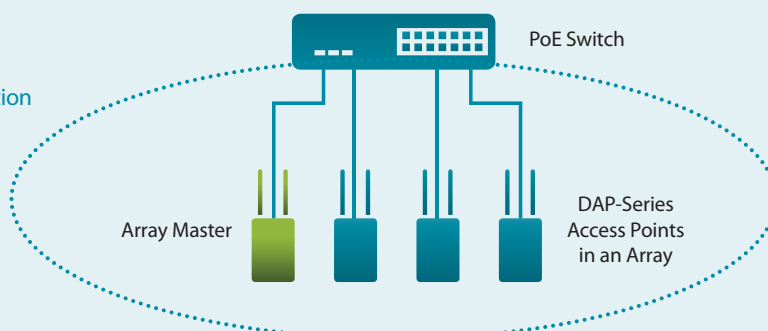
Manage each Access Point individually.



### Centralised Management

Assign one Access Point as Array Master.  
Centrally manage and synchronise configuration of up to 32 Access Points.

- Audio Frequency (RF) Management
- Bandwidth optimization
- Captive Portal and access control

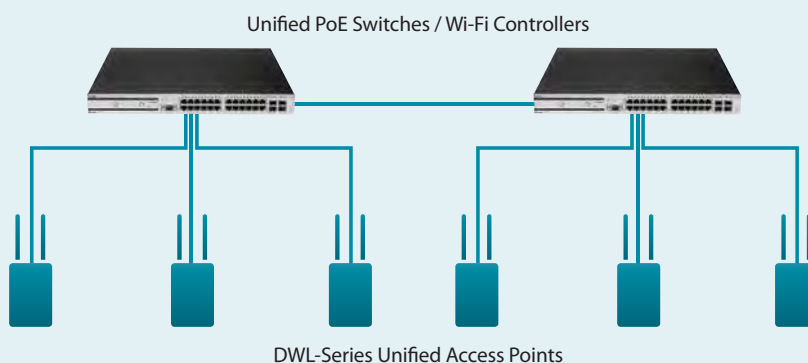


## DWL-Series Unified Access Points

### • Built-in PoE Switch

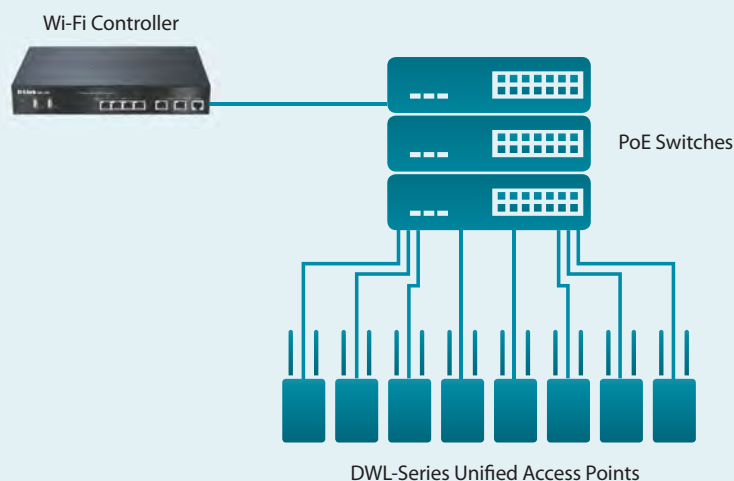
### • Redundant Power Supply Support

- Automatic Channel Adjustment
- Automatic RF Power Adjustment
- Self-Healing Wi-Fi Network
- Centralised Management
- Fast Layer 2/3 Roaming



### • Wi-Fi Hotspot Ticketing

- Automatic Channel Adjustment
- Automatic RF Power Adjustment
- Self-Healing Wi-Fi Network
- Centralised Management
- Fast Layer 2/3 Roaming





# D-Link Wireless Solutions for Education

Today, education is about mobile learning and Bring Your Own Device (BYOD). Students and faculty expect immediate access with a seamless connection to the campus network anytime and everywhere, often with 2 or 3 wireless devices at once. In virtually every academic classroom, nearly all educators have online components to their curriculum.

In a high-density learning environment, hundreds of people are trying to connect to the network at the same time. And everyone is eating up more bandwidth than ever before, exceeding the capacity of your existing network.

You know that it's critical for everyone to have a fast, reliable, and secure connection to the campus network. One failure to connect wirelessly is one too many. With your IT budget stretched thin, the expectation to provide unified coverage for everyone, everywhere may seem insurmountable.

**D-Link Unified Wireless provides a range of solutions that enable your network to become a highly mobile, productive learning environment at a low total cost of ownership.**



## Unified Wireless Solution

DWC-2000 & DWL-8610AP

Working together as a unified solution the DWC-2000 Unified Wireless Controller and DWL-8610AP Access Point consolidate the security, manage the bandwidth and maintain the intelligence of your entire wireless network.

Complete with an array of advanced features and 802.11ac support, each DWC-2000 Unified Wireless Controller can manage up to 64 DWL-8610AP access points by itself and up to 256 in a switch cluster. And the DWC-2000 greatly reduces network administration by enabling centralised configuration of all DWL-8610AP access points.

**D-Link Unified Wireless networks are scalable;** you start in one building and you can add as you go. They're easy to deploy, featuring one-time configuration and dispatch to multiple access points (APs) at one time.

**Each Switch/Controller can automatically detect and configure new channels** as new APs are added to the network, eliminating the need to manually assign a new radio frequency (RF) channel for each AP.

**Each D-Link Access Point offers high quality, reliable, and secure connectivity,** with high data transmission speeds and AP load balancing, allowing students to stay connected as they move from one end of the campus to another.

**D-Link is helping schools build a mobile and connected campus** that advances education by providing Wireless Everywhere.



# Range Overview

## Standalone Wireless Access Points (Indoor/Outdoor)



## Unified Wireless Access Points (Indoor/Outdoor)



## Unified Solutions: Wireless Switches and Wireless Controller



\*DWS-3160 Series supports 12 Access Points as standard and can be upgraded to 48 Access Points through a license upgrade  
 DWC-1000 supports 6 Access Points as standard and can be upgraded to 24 Access Points through a license upgrade  
 DWC-2000 supports 64 Access Points as standard and can be upgraded to 256 Access Points through a license upgrade

## Network Adapters



# Standalone Wireless Access Points

## DAP Series

Wireless technology offers businesses flexible and inexpensive ways to send and receive data, cut costs and improve productivity, and D-Link has a range of robust wireless access points that are able to work in both the 2.4 GHz and 5 GHz frequencies. Backwards compatible with all Wi-Fi technologies, our wireless range includes the latest dual-band Wireless AC devices, plenum-rated for mounting on walls and ceilings. Robust enough to be deployed at the very core of your network, they give greatly enhanced reliability and coverage, and include advanced security features to keep you completely safe from intrusion.

### DAP-1665

#### Wireless AC1200 Simultaneous Dual-Band Access Point



Wireless AC

- The dual-band 802.11ac technology delivers combined speeds of up to 1200 Mbps, with increased range to reach more places in your office
- Can operate as an access point, bridge, bridge with access point, repeater or wireless client, giving the flexibility to tailor it to your network needs
- Complete set of security encryption standards including WEP, WPA/WPA2, and WPS to safeguard your network against outside intruders
- Gigabit Ethernet port for the fastest wired speeds

### DAP-2310

#### Wireless N300 Access Point



Central WiFiManager  
Compatible

- 802.11n connectivity for increased network capacity
- Up to 300 Mbps wireless speeds
- Four products in one: access point, wireless client, WDS (Wireless Distribution System), WDS with AP
- Gigabit Ethernet port for the fastest wired speeds
- Multiple SSID for wireless network segmentation
- VLAN support
- WMM (Wireless Multi Media) to prioritise audio, video and voice applications
- Enhanced security with RADIUS support
- High-power radio design

### DAP-2360

#### Wireless N300 PoE Access Point



Central WiFiManager  
Compatible

- High-power single radio design of the antennas reduces dead spots and increases capacity
- Detachable antennas provide optimal wireless coverage in the 2.4 GHz (802.11b/g/n) band
- Up to 300 Mbps wireless speeds
- PoE support for convenient installation
- Allows network administrators to deploy a highly manageable and extremely robust 802.11n wireless network

### DAP-2230

#### Wireless N300 PoE Access Point



Central WiFiManager  
Compatible

- Ideal for indoor deployments
- Four products in one: access point, wireless client, WDS (Wireless Distribution System), WDS with AP
- Fast Ethernet Port and PoE supported

### DAP-2330

#### Wireless N300 PoE Access Point



Central WiFiManager  
Compatible

- Wireless speeds of up to 300 Mbps in 2.4 GHz wireless band
- Four products in one: access point, wireless client, WDS (Wireless Distribution System), WDS with AP
- PoE support for one-cable installation

### DAP-2690

#### Wireless N600 Simultaneous Dual-Band PoE Access Point



Central WiFiManager  
Compatible

- Simultaneous dual-band operation for high-performance wireless connections
- Wireless speeds of up to 300 Mbps in both 2.4 GHz and 5 GHz wireless bands.
- Four products in one: access point, wireless client, WDS (Wireless Distribution System), WDS with AP
- Rugged metal, plenum-rated housing
- Enhanced network security features with NAP (Network Access Protection) support
- PoE support for one-cable installation



MODEL	DAP-1665	DAP-2310	DAP-2360	DAP-2230	DAP-2330	DAP-2690
<b>WIRED STANDARDS</b>						
10/100BASE-TX				1		
10/100/1000BASE-T	1	1	1		1	1
<b>WIRELESS STANDARDS</b>						
IEEE 802.11a						•
IEEE 802.11b/g/n	•	•	•	•	•	•
IEEE 802.11ac	•					
Simultaneous Dual-Band	•					•
<b>OPERATION MODES</b>						
Access Point Mode	•	•	•	•	•	•
Wireless Client Mode	•	•	•	•	•	•
Bridge (WDS) Mode	•	•	•	•	•	•
Bridge with Access Point Mode	•	•	•	•	•	•
Repeater Mode	•					
<b>ANTENNA FEATURES</b>						
Antenna Type	External Detachable	External Detachable	External Detachable	Internal	Internal	External Detachable
Gain	2 x 3 dBi for 2.4GHz, 5 dBi for 5GHz	2 x 2 dBi for 2.4GHz	2 x 5 dBi for 2.4GHz	3 dBi for 2.4GHz	3 dBi for 2.4GHz	2 x 4 dBi for 2.4GHz 2 x 6 dBi for 5GHz
<b>AUTHENTICATION FEATURES</b>						
64/128-Bit WEP	•	•	•	•	•	•
WPA/WPA2-PSK	•	•	•	•	•	•
WPA/WPA2-EAP	•	•	•	•	•	•
TKIP/AES	•	•	•	•	•	•
802.1X User Authentication		•	•	•	•	•
<b>SECURITY FEATURES</b>						
MAC Address Filtering	•	•	•	•	•	•
SSID Broadcast Disable	•	•	•	•	•	•
Rogue AP Detection		•	•	•	•	•
WLAN Partition	•	•	•	•	•	•
802.1Q VLAN		•	•	•	•	•
Multiple SSIDs for Network Segmentation		•	•	•	•	•
<b>GROUPING FEATURES</b>						
Load Balancing		•	•	•	•	•
Link Integrity		•	•	•	•	•
User Limit	•	•	•	•	•	•
<b>QoS FEATURES</b>						
WMM (Wi-Fi Multimedia)	•	•	•	•	•	•
<b>NETWORKING FEATURES</b>						
Auto-Channel Scan	•	•	•	•	•	•
<b>MANAGEMENT FEATURES</b>						
SNMP		•	•	•	•	•
D-View 7		•	•		•	•
Configuration through AP Array		•	•	•	•	•
Telnet		•	•	•	•	•
SSH		•	•	•	•	•
Central WiFiManager		•	•	•	•	•
<b>INSTALLATION FEATURES</b>						
For Outdoor Usage						
802.3af Power over Ethernet (PoE)		• (Optional Part Number)	•	•	•	•
PoE Injector Included						•



# Standalone Wireless Access Points

## DAP Series

Wireless technology offers businesses flexible and inexpensive ways to send and receive data, cut costs and improve productivity, and D-Link has a range of robust wireless access points that are able to work in both the 2.4 GHz and 5 GHz frequencies. Backwards compatible with all Wi-Fi technologies, our wireless range includes the latest dual-band Wireless AC devices, plenum-rated for mounting on walls and ceilings. Robust enough to be deployed at the very core of your network, they give greatly enhanced reliability and coverage, and include advanced security features to keep you completely safe from intrusion.

### DAP-2660

Wireless AC1200 Simultaneous Dual-Band PoE Access Point



Central WiFiManager  
Compatible



- Harness the power of Wireless AC, enjoying combined wireless speeds of up to 1200 Mbps, perfect for high-demand business applications
- Enhanced dual-band performance with band steering to provide a faster and more stable wireless connection
- Maintain a secure network with a range of features including WPA/WPA2, Wireless LAN segmentation and VLAN support
- Configure to use as an access point, a wireless distribution system (WDS) with access point, a WDS/bridge, or a wireless client

### DAP-2695

Wireless AC1750 Simultaneous Dual-Band PoE Access Point



Central WiFiManager  
Compatible



- Super-fast Wireless AC Performance
- Wireless AC technology backwards compatible with existing Wi-Fi standards
- Flexible simultaneous dual-band technology with band steering that automatically makes use of the less-crowded 5 GHz frequency
- Enhanced network security and access control features, as well as wireless segmentation

### DAP-3310

Wireless N300 2.4 GHz PoE Outdoor Access Point with PoE Pass-Through



- Built to withstand harsh environments with weatherproof IPX6 standard
- Allows for flexible installation and supplies additional power to another PoE-powered device such as a video surveillance camera
- Multiple operation modes including access point, WDS, WDS with AP, wireless client, wireless repeater, WISP client router or WISP repeater
- Long-distance wireless networking with WDS and WISP
- Secure wireless connectivity with WPA/WPA2

### DAP-3410

Wireless N300 5 GHz PoE Outdoor Access Point with PoE Pass-Through



- Increase network capacity by adding 5 GHz wireless connectivity for smartphones, notebooks or other portable devices
- Multiple operation modes, including access point, wireless distribution system (WDS), WDS with AP, repeater, wireless client, WISP client router and WISP repeater
- Waterproof to IPX6 standard
- PoE pass-through capability
- Up to 300 Mbps wireless speed
- Industry standard security and encryption

### DAP-3320

Wireless N300 PoE Outdoor Access Point

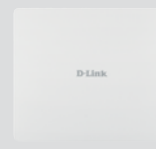


Central WiFiManager  
Compatible

- Single-band 802.11n connectivity
- IP55-rated housing for outdoor deployment
- Supports up to 8 SSIDs
- Enterprise security and management
- Internal and external RADIUS support
- 802.3af Power over Ethernet (PoE) support
- Multiple operation modes, including access point, WDS, WDS with AP, wireless client

### DAP-3662

Wireless AC1200 Simultaneous Dual-Band Outdoor PoE Access Point



Central WiFiManager  
Compatible



- Wireless AC for super-fast performance
- Flexible simultaneous dual-band technology with band steering that automatically makes use of the less-crowded 5 GHz frequency
- IP68-rated housing provides weatherproofing for the most demanding environments
- Multiple operation modes, including access point, wireless distribution system (WDS), WDS with AP, wireless client and WDS/Bridge
- Wall- and pole-mounting hardware included
- 802.3af Power over Ethernet (PoE) support



MODEL	DAP-2660	DAP-2695	DAP-3310	DAP-3410	DAP-3320	DAP-3662
<b>WIRED STANDARDS</b>						
10/100BASE-TX			2	2	1	
10/100/1000BASE-T	1	2				2
<b>WIRELESS STANDARDS</b>						
IEEE 802.11a	•	•		•		•
IEEE 802.11b/g	•	•	•		•	•
IEEE 802.11n	•	•	•	•	•	•
IEEE 802.11ac	•	•				•
Simultaneous Dual-Band	•	•				•
<b>OPERATION MODES</b>						
Access Point Mode	•	•	•	•	•	•
Wireless Client Mode	•	•	•	•	•	•
Bridge (WDS) Mode	•	•	•	•	•	•
Bridge with AP Mode	•	•	•	•	•	•
Repeater Mode			•	•		
WISP Client Router Mode			•	•		
WISP Repeater Mode			•	•		
<b>ANTENNA FEATURES</b>						
Antenna Type	Internal	External Detachable	Internal	Internal	Internal	Internal
Gain	3 dBi for 2.4 GHz 4 dBi for 5 GHz	3 x 4 dBi for 2.4 GHz 3 x 6 dBi for 5 GHz	10 dBi for 2.4 GHz	15 dBi for 5 GHz	4 dBi for 2.4 GHz	6 dBi for 2.4 GHz 6 dBi for 5 GHz
<b>AUTHENTICATION FEATURES</b>						
64/128-Bit WEP	•	•	•	•	•	•
WPA/WPA2-PSK	•	•	•	•	•	•
WPA/WPA2-EAP	•	•	•	•	•	•
TKIP/AES	•	•	•	•	•	•
802.1X User Authentication	•	•	•	•	•	•
<b>SECURITY FEATURES</b>						
MAC Address Filtering	•	•	•	•	•	•
SSID Broadcast Disable	•	•	•	•	•	•
Rogue AP Detection	•	•	•	•	•	•
WLAN Partition	•	•	•	•	•	•
802.1Q VLAN	•	•	•	•	•	•
Multiple SSIDs for Network Segmentation	•	•	•	•	•	•
<b>GROUPING FEATURES</b>						
Load Balancing	•	•	•	•	•	•
Link Integrity	•	•			•	•
User Limit	•	•	•	•	•	•
<b>QoS FEATURES</b>						
WMM (WiFi Multimedia)	•	•	•	•	•	•
<b>NETWORKING FEATURES</b>						
Auto-Channel Scan	•	•	•	•	•	•
<b>MANAGEMENT FEATURES</b>						
SNMP	•	•	•	•	•	•
D-View 7	•	•				•
Configuration through AP Array	•	•			•	•
Telnet	•	•	•	•	•	•
SSH	•	•	•	•	•	•
Central WiFiManager	•	•			•	•
<b>INSTALLATION FEATURES</b>						
For Outdoor Usage			• (IPX6)	• (IPX6)	• (IP55)	• (IP68)
802.3af Power over Ethernet (PoE)	•		Proprietary PoE	Proprietary PoE	•	•
802.3at Power over Ethernet (PoE+)		•	Proprietary PoE	Proprietary PoE		
PoE Injector Included		•	•	•		•
PoE Pass-Through			•	•		

# Central WiFiManager

## CWM-100

Central WiFiManager is D-Link's latest free tool to help network administrators streamline their wireless access point management workflow. Central WiFiManager is an innovative approach to the more traditional hardware-based multiple access point management system and uses a centralised server to both remotely manage and monitor wireless access points on a network. Whether deployed on a local computer or hosted on a public cloud service, Central WiFiManager can be easily integrated into existing networks in conjunction with supporting D-Link wireless access points, to help eliminate existing bottlenecks for wireless traffic.

### Extendable, Affordable Business Wireless Solution

Designed from the ground up as a standalone software controller, D-Link's free Central WiFiManager is flexible, robust, and feature-rich. It comes ready to run with many enhanced enterprise wireless access point features to provide a solid wireless network system for customers who need a centralised management controller. Central WiFiManager can be deployed onto a server running Microsoft Windows<sup>1</sup> and can manage up to 1000 APs<sup>2</sup> without any license charges. Central WiFiManager supports a range of D-Link Access Points, as shown on the right.

### Robust Security and Management Tools

Central WiFiManager supports multi-site deployment management as well as multi-tenancy management. This allows network administrators to provide different authorities between head and regional offices, and allows service providers to offer a managed wireless network for their customers. Sites can be logically separated with their own configuration, access security, network map, and statistics. For example, a network operations manager could pre-configure APs before dispatching them to regional offices. He can then manage all of the APs on an enterprise intranet, while allowing local administrators to manage only theirs.

## Key Features

### Web-Based Management

- Software controller that can be installed on a Microsoft Windows computer<sup>1</sup> and accessed through any device with a web browser

### Multi-Site Management

- Multiple distributed sites can be managed from a central location
- The multi-tenant architecture provides multi-layer management authority

### NAT Pass-Through

- Controllers can manage wireless access points in remote locations even if they are behind a NAT device (router or firewall)

### Captive Portal and Access Control

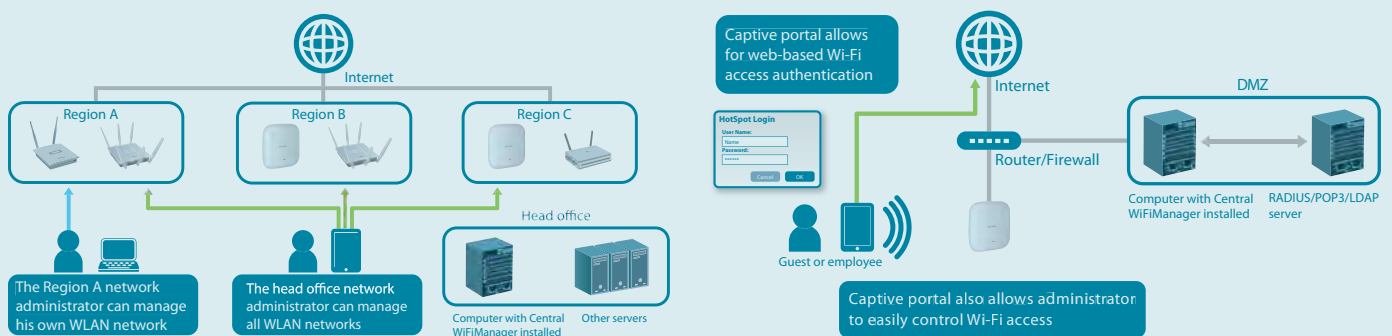
- Supports local DB, external RADIUS, LDAP, POP3 and Wi-Fi passcode authentication
- Supports user access control

### Auto Radio Frequency (RF) Management

- Supports automatic channel and output power optimisation

### Bandwidth Optimisation










- Optimises wireless bandwidth



For wireless access, D-Link SMB APs can support 8 SSIDs per radio, which means administrators can use one SSID to create a guest network for visitors. Central WiFiManager expands on that built-in feature and allows for multiple user authentications. Access controls can be configured per SSID as well, allowing network administrators to configure separate internal networks for different subnets. This means that more advanced value-added services such as a captive portal or Wi-Fi hotspot can be used to

help manage traffic. Unlike traditional hardware controller solutions for managing wireless APs, Central WiFiManager has a much lower initial investment cost as there are no per-AP license charges. With the simple-to-use installation tool, it is easy to expand the wireless network in the future. Adding devices to Central WiFiManager is done automatically when new access points are discovered on the network, allowing new devices to be quickly managed and deployed. Central WiFiManager also automatically

manages RF output for multiple access points, optimising the number of available wireless channels and coverage. This results in reduced channel interference and provides faster total bandwidth throughput and connection reliability. By optimising the coverage area and connection quality, Central WiFiManager enables network administrators to provide a better wireless service at a lower deployment cost, resulting in a higher return on investment.

	11AC DUAL BAND			11N DUAL BAND	11N SINGLE BAND				
									
<b>MODEL</b>	DAP-2695	DAP-2660	DAP-3662	DAP-2690	DAP-3320	DAP-2330	DAP-2230	DAP-2360	DAP-2310
<b>Indoor/Outdoor</b>	Indoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Indoor	Indoor	Indoor
<b>H/W Version</b>	A1	A1	A1	B1	A1	A1	A1	B1	B1
<b>IEEE Standard</b>	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n	802.11b/g/n	802.11b/g/n	802.11b/g/n	802.11b/g/n	802.11b/g/n
<b>2.4 GHz Speed</b>	450 Mbps	300 Mbps	300 Mbps	300 Mbps	300 Mbps	300 Mbps	300 Mbps	300 Mbps	300 Mbps
<b>5 GHz Speed</b>	1300 Mbps	867 Mbps	867 Mbps	300 Mbps					
<b>Number of SSIDs</b>	16 (8 per radio)	16 (8 per radio)	16 (8 per radio)	16 (8 per radio)	8	8	8	8	8
<b>Ethernet Interface</b>	2 x Gigabit Ethernet	1 x Gigabit Ethernet	2 x Gigabit Ethernet	1 x Gigabit Ethernet	1 x Fast Ethernet	1 x Gigabit Ethernet	1 x Fast Ethernet	1 x Gigabit Ethernet	1 x Gigabit Ethernet
<b>PoE Standard</b>	802.3at (PoE +)	802.3af (PoE)	802.3af (PoE)	802.3af (PoE)	802.3af (PoE)	802.3af (PoE)	802.3af (PoE)	802.3af (PoE)	802.3af (PoE) (Optional Part Number)
<b>Antenna Type</b>	External	Internal	Internal	External	Internal	Internal	Internal	External	External
<b>Antenna Gain</b>	2.4 GHz: 4 dBi 5 GHz: 6 dBi	2.4 GHz: 3 dBi 5 GHz: 4 dBi	2.4 GHz: 6 dBi 5 GHz: 6 dBi	2.4 GHz: 4 dBi 5 GHz: 6 dBi	2.4 GHz: 4 dBi	2.4 GHz: 3 dBi	2.4 GHz: 3 dBi	2.4 GHz: 5 dBi	2.4 GHz: 2 dBi
<b>Mounting Type</b>	Wall/Desktop	Ceiling/Wall/ Desktop	Wall/Pole	Wall/Desktop	Wall/Pole	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop	Wall/Desktop	Wall/Desktop
<b>PoE Kit in Package</b>	•		•	•					

**WLAN MANAGEMENT**

Maximum APs per Device (Controller)	1000 <sup>2</sup>
WLAN Management Features	AP Grouping, Multi-Tenancy, Visualised Topology, NAT Pass-Through
AP-Controller Connection Mode	Bridge Mode

**USER AUTHENTICATION**

Guest Portal	Captive Portal
Authentication Method	Local, POP3, RADIUS, LDAP, Voucher
Hotspot Features	Built-in Support for Voucher-Based Authentication Built-in Hotspot Manager for Voucher Creation and Guest Management Rate limiting and bandwidth control for guest and hotspot portal

**WIRELESS FEATURES**

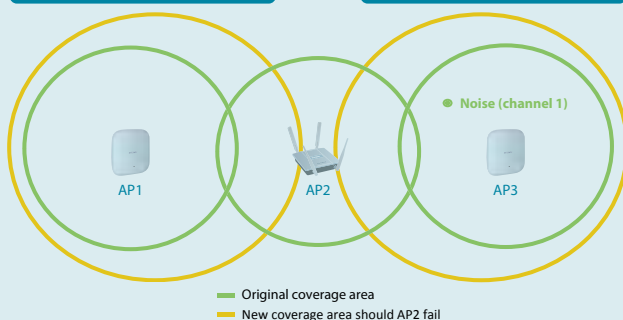
RF Management and Control	Auto Output Power Control, Auto Channel, Self-Healing Around Failed APs
Multiple SSIDs per Radio(AP)	8
Advanced Wireless Features	Band steering, L2 roaming, Bandwidth Optimisation
WIDS System	Rogue AP Detection

**SYSTEM MANAGEMENT**

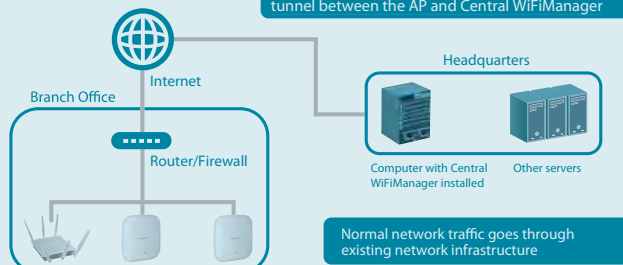
Management Interface	Web-Based User Interface
Minimum System Requirements	Computer running Microsoft Windows 7 or Windows Server 2008/2012
Online Check	Firmware, Module
Scheduling	Firmware Update, Configuration Update

AP1 and AP3 increase output power to cover for AP2 if it should fail

AP3 changes to channel 11 after detecting interference on channel 1



Management traffic goes through a proprietary tunnel between the AP and Central WiFiManager



Deploying Central WiFiManager is also much simpler compared to traditional hardware controller solutions as it can be installed on any server running a recent version of Microsoft Windows<sup>1</sup>. Central WiFiManager software operates transparently on the network, meaning the access point can be deployed anywhere in a customer's Layer-2/3 environment. Management traffic to and from the target access points will go through an authorised tunnel to Central WiFiManager while normal network traffic will go through the existing networking infrastructure unimpeded. The Central WiFiManager management interface is also remotely accessible via its built-in web server, so administrators can use a web browser to connect to computers with Central WiFiManager installed to manage their WLAN network and wireless access points from anywhere.

**FREE with  
selected  
D-Link Access  
Points**

<sup>1</sup> Supported Operating Systems: Microsoft Windows 7 or Windows Server 2008/2012.

<sup>2</sup> Number of wireless access points supported depends on the specification of the computer on which Central WiFiManager is installed. To support 500 APs, a computer with at least an Intel Core i5 3.2 GHz with 4 GB RAM and 2 TB hard drive is recommended.



# Unified Wireless Access Points

## DWL Series

D-Link's Unified Wireless Access Points are highly manageable and scalable with high data

transmission speeds, optional support for Power over Ethernet and advanced security features.

### Managed Mode

- Centralised management
- Centralised firmware dispatch
- Auto-power adjustment
- Layer 2 Fast roaming
- Layer 3 Fast roaming
- Captive portal

### Standalone Mode

- WEP/WPA/WPA2 security
- Rogue AP detection
- Station isolation
- MAC address filtering
- AP load balancing set-up
- Wi-Fi Multimedia (WMM)
- Dynamic auto-channel selection
- Local storage of configuration

### Standalone Mode

- Local storage of configuration
- AP Clustering

### DWL-2600AP

Unified Wireless N300 PoE Access Point



- Wireless performance of up to 300 Mbps network throughput
- Self-configuring cluster enables easier provisioning
- Up to 8 virtual access points (VAP) may be created from a single unit
- Load balancing to optimise high network traffic volume and redundancy
- Supports the latest standards in Wi-Fi security

### DWL-3600AP

Unified Wireless N300 PoE Access Point



- Expand a Wi-Fi network to cover a larger area
- Load balancing to optimise high network traffic volume and redundancy
- 802.11n connectivity for increased network capacity
- Supports the latest standards in Wi-Fi security

### DWL-6600AP

Unified Wireless N600 Simultaneous Dual-Band PoE Access Point



- Concurrent dual-band – works in 2.4 GHz and 5 GHz simultaneously
- Flexible deployment – stand-alone or centrally managed by a wireless controller
- Wireless performance of up to 300 Mbps network throughput in each band
- Self-configuring cluster enables easier provisioning
- Automatic load-balancing among neighbouring access points

### DWL-6610AP

Unified Wireless AC1200 Simultaneous Dual-Band PoE Access Point



Wireless AC

- Supports advanced wireless functions
- Flexible dual-band wireless connectivity
- Optimal wireless performance
- Flexible Quality of Service (QoS) with WMM
- 802.3at PoE+ enables installation in hard-to-reach locations

### DWL-6700AP

Unified Simultaneous Dual-Band PoE Outdoor 5GHz Bridging Access Point



- Concurrent dual-band – works in 2.4 GHz and 5 GHz simultaneously
- 5 GHz directional high-gain antennas deliver extended coverage via WDS connections and 2.4 GHz omnidirectional antennas provide local Wi-Fi access
- An all-in-one plastic enclosure with pole-mount design simplifies outdoor deployment and a remote reset button via a PoE injector for hassle-free reboots

### DWL-8610AP

Unified Wireless AC1750 Simultaneous Dual-Band PoE Access Point



Wireless AC

- Harness the power of Wireless AC, enjoying combined wireless speeds of up to 1750 Mbps, perfect for high-demand business applications
- Enhanced dual-band performance with band steering to provide a faster and more stable wireless connection
- AC SmartBeam™ technology greatly improves wireless performance by focusing wireless signals, providing wider wireless coverage without the need for additional access points.



MODEL	DWL-2600AP	DWL-3600AP	DWL-6600AP	DWL-6610AP	DWL-6700AP	DWL-8610AP
<b>WIRELESS STANDARDS</b>						
IEEE 802.11a			•	•	•	•
IEEE 802.11b/g/n	•	•	•	•	•	•
IEEE 802.11ac				•		•
Simultaneous Dual-Band			•	•	•	•
<b>WIRED STANDARDS</b>						
10/100BASE-TX	1				2	
10/100/1000BASE-T		1	1	1		2
<b>OPERATION MODES</b>						
AP Mode	•	•	•	•	•	•
Bridge (WDS) Mode	•	•	•	•	•	•
<b>ANTENNA FEATURES</b>						
Antenna Type	Internal	Internal	Internal, External Antenna Connector	Internal	Internal	Internal
Gain	3 dBi for 2.4 GHz	4.7 dBi for 2.4 GHz	5 dBi for 2.4 GHz 6 dBi for 5 GHz	3.5 dBi for 2.4 GHz 5 dBi for 5 GHz	8 dBi for 2.4 GHz 3 dBi for 5 GHz	5 dBi for 2.4 GHz 6.5 dBi for 5 GHz
<b>AUTHENTICATION FEATURES</b>						
64/128-Bit WEP	•	•	•			•
WPA/WPA2-PSK	•	•	•	•	•	•
WPA/WPA2-EAP	•	•	•	•	•	•
TKIP/AES	•	•	•	•	•	•
802.1X User Authentication	•	•	•	•		•
<b>SECURITY FEATURES</b>						
MAC Address Filtering	•	•	•	•	•	•
SSID Broadcast Disable	•	•	•	•	•	•
Rogue AP Detection	•	•	•	•		•
802.1Q VLAN	•	•	•	•	•	•
Multiple SSIDs for Network Segmentation	•	•	•	•	•	•
<b>GROUPING FEATURES</b>						
Load Balancing	•	•	•	•	•	•
Link Integrity Monitoring	•	•	•			•
<b>QoS FEATURES</b>						
WMM (WiFi Multimedia)	•	•	•	•	•	•
<b>NETWORK FEATURES</b>						
Auto-Channel Scan	•	•	•	•	•	•
Auto-Power Adjustment	•	•	•	•	•	•
<b>MANAGEMENT FEATURES</b>						
SNMP	•	•	•	•		•
D-View 7	•	•	•			•
AP Clustering	•	•	•	•		•
Telnet	•	•	•	•		•
SSH	•	•	•	•	•	•
Management via Wireless Controller/ Unified Switch	•	•	•	•	•	•
Supported D-Link Wireless Controller/ Unified Switch models	DWC-1000 DWC-2000 DWS-3160	DWC-1000 DWC-2000 DWS-3160	DWC-1000 DWC-2000 DWS-3160	DWC-1000 DWC-2000	DWC-1000 DWC-2000	DWC-1000 DWC-2000 DWS-3160
<b>INSTALLATION FEATURES</b>						
Indoor/Outdoor	Indoor	Indoor	Indoor	Indoor	Outdoor (IP-55 rated)	Indoor
Plenum rated (UL-2043)		• (Optional Part Number)	• (Optional Part Number)			•
Power over Ethernet (PoE)	802.3af	802.3af	802.3af	802.3at	Non-Standard PoE	802.3at
PoE Injector Included					•	

# Unified Wired/Wireless Access System

## DWS-3160 Series

The DWS-3160 Unified Layer 2+ Gigabit Wired/Wireless Switch is the ideal mobility solution for businesses, since it empowers administrators to exercise total control over their entire wireless network(s) by centralising all aspects of provisioning and management. Able to manage up to 48 D-Link unified access points by itself and up to 192 in a switch cluster, the DWS-3160 models can be configured to act either as a wireless controller in the core network, or as a Layer 2+ Gigabit Switch at the edge, enabling it to be seamlessly integrated into any existing network infrastructure.



### Principle Product Features

#### DWS-3160-24TC

- 10/100/1000BASE-T ports x 20
- 10/100/1000BASE-T/SFP Combo ports x 4
- Console (RJ45) port x 1
- Management of up to 12 access points per switch
- Upgrade licenses for up to 48 access points per switch
- Up to 192 access points per switch cluster
- Automatic access point transmit output power adjustment

#### DWS-3160-24PC

- 10/100/1000BASE-T PoE ports x 20
- 10/100/1000BASE-T/SFP PoE Combo ports x 4
- Console (RJ45) port x 1
- 802.3af (PoE) and 802.3at (PoE)+ support
- 370 W PoE power budget (760 W with DPS-700 RPS)
- Management of up to 12 access points per switch
- Upgrade licenses for up to 48 access points per switch
- Up to 192 access points per switch cluster
- Automatic access point transmit output power adjustment

### Key Series Features

- Management of up to 12 access points per switch
- Upgrade licenses for up to 48 access points per switch
- Up to 192 access points per switch cluster
- Automatic access point RF channel adjustment
- Automatic access point transmit output power adjustment
- Centralised access point firmware upgrade

### Optional Accessories

#### Optional Software Image Upgrade Licenses

DWS-316024TCAP12-LIC	DWS-3160-24TC Additional 12 Access Points Support License
DWS-316024TCAP24-LIC	DWS-3160-24TC Additional 24 Access Points Support License
DWS-316024PCAP12-LIC	DWS-3160-24PC Additional 12 Access Points Support License
DWS-316024PCAP24-LIC	DWS-3160-24PC Additional 24 Access Points Support License

#### Optional Redundant Power Supplies

DPS-200	60 W Redundant Power Supply for DWS-3160-24TC
DPS-700	589 W Redundant Power Supply For DWS-3160-24PC

#### Optional Management Software

DV-700	D-View 7 Network Management System
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MODEL		DWS-3160-24TC	DWS-3160-24PC
Interfaces	10/100/1000BASE-T (RJ45)	20	20 (PoE)
	Combo 1000BASE-T/SFP	4	4 (PoE)
General Features	Switching Capacity	48 Gbps	
	Maximum Forwarding Rate	35.71 Mpps	
	Forwarding Mode	Store-and-Forward	
	Packet Buffer Memory	2 MB	
	MTBF	561,829 Hours	282,541 Hours
	Console Port	RJ45	
WLAN Management Capability		Centralised	
Roaming		Fast Roaming; Intra-Switch/Inter-Switch Roaming; Intra-Subnet/Inter-Subnet Roaming	
Access Control and Bandwidth Management		Up to 32 SSID per AP (16 SSID per Frequency Band) AP Load Balancing based on the number of users or AP utilisation Flexible Mapping Schemes	
Managed Access Point		DWL-2600AP, DWL-3600AP, DWL-6600AP, DWL-8610AP (New Models Coming Soon)	
Access Point Management		AP Auto-Discovery Remote AP Reboot AP Monitoring: List Managed AP, Rogue AP, Authentication Failed AP Client Monitoring: List Clients Associated with each Managed AP Ad-Hoc Client Monitoring AP Authentication Supporting Local Database and External RADIUS Server Centralised RF/Security Policy Management Automatic AP RF Channel Adjustment Automatic AP Transmit Output Power Adjustment Centralised Firmware Upgrade	
WLAN Security		WPA Personal/Enterprise WPA2 Personal/Enterprise 64/128/152-Bit WEP Data Encryption MAC Authentication Station Isolation Wireless Station and AP Monitoring based on RF Channel, MAC Address, SSID, Time Rogue AP and Client Detection and Mitigation Captive Portal Security Profile 802.1X Support Guest VLAN	
Layer 2 Features		MAC Address Table: 16,000 IGMP Snooping; MLD Snooping 802.1D/w/s SpanningTree; 802.3ad Link Aggregation; 802.1ab LLDP Port Mirroring (One-to-One and Many-to-One) Jumbo Frame Size: up to 13 KB	
Virtual LAN (VLAN)		Static VLAN Groups: 4,094 802.1q VLAN Tagging; 802.1v Subnet-basedVLAN; MAC-basedVLAN GVRP; Double VLAN; VoiceVLAN	
Layer 3 Features		IPv4/v6 Static Route RoutingTable Size: 512 Static Routes VRRP; ARP Proxy	
Quality of Service (QoS)		Voice VLAN Wireless Multimedia (WMM) 802.1p Priority Queues CoS-based QoS Per-Flow Bandwidth Control Per-Port Traffic Shaping Minimum Bandwidth Guarantee	
Access Control List (ACL)		ACL Based on: Switch Port, MAC Address, 802.1p Queues, VLAN, Ether Type, DSCP, IP Address, Protocol Type, TCP/UDP Port, IPv6 Traffic Class, IPv6 Flow Label	
LAN Security		RADIUS Authentication Management Access TACACS+ Authentication for Management Access SSH & SSL Support MAC Filtering; 802.1x Port-Based Access Control & Guest VLAN Denial of Service Protection Dynamic ARP Inspection Protected Port Broadcast Storm Control Access Control List	
Management Methods		Management of up to 12 Access Points per Switch Upgrade Licenses for up to 48 Access Points per Switch Up to 192 APs per Switch Cluster Single IP Management (SIM) SSH; SSL; SNMP v1, 2c, 3; sFlow; Dual Image Support Web GUI; Command Line Interface	
Physical and Environment	Dimension	440 x 210 x 44 mm	440 x 310 x 44 mm
	Weight	2.55 kg	5.24 kg
	Maximum Power Consumption	37.7 W	467 W (Full PoE Load)
	PoE		802.3af PoE, 802.3at PoE+
	PoE Power Budget		30 W per Port; 370 W Total (740 W with DPS-700)
	Redundant Power Supply	DPS-200	DPS-700
	Operating Temperature	0°C to 50°C	
Operating Humidity	10% to 90% RH Non-Condensing		
Modules / Transceivers	SFP Transceivers	DEM-210, DEM-211, DEM-220T, DEM-220R, DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712	



# Unified Wireless Controllers

## DWC Series

The DWC Series of wireless controllers is designed for centralised wireless LAN management, developed specifically for businesses, education and medium-to-large enterprises that are looking for an easy-to-use, scalable solution to manage and configure their wireless network(s).

With the ability to manage up to six wireless access points (upgradable to 24) and a maximum of 96 wireless access points in a controller cluster, the DWC-1000 is a cost-effective mobility solution for businesses. Its auto-managed AP discovery and single-point management allows you to establish an enterprise-class system without the burden of executing massive and complex configurations. With a robust and comprehensive security detection system, the DWC-1000 also enables managed APs to block potential attacks from unauthorised users and devices, especially for wireless environments.

Its bigger brother, the DWC-2000, has the ability to manage up to 64 (upgradable to 256) wireless access points and up to a maximum of 1,024 wireless access points in a controller cluster, so is suitable for medium- to large-scale deployments. It also features auto-managed AP discovery and single-point management, and the guest account generation function manages guest users' bandwidth and accessibility to network resources. Again, the robust and comprehensive security detection system manages associated APs by blocking potential attacks from unauthorised users and appliances, which is particularly crucial in wireless environments.



## Principle Product Features

### DWC-1000

- 10/100/1000BASE-T LAN ports x 4
- 10/100/1000BASE-T (WAN/DMZ) option ports x 2
- USB 2.0 ports x 2
- RJ-45 Console port
- Manage up to 6 access points (by default)
- Upgradable to 24 access points
- Manage up to a maximum of 96 access points in a controller cluster

### DWC-2000

- 10/100/1000BASE-T/SFP Combo ports x 4
- USB 2.0 ports x 2
- RJ-45 Console port
- Manage up to 64 access points (by default)
- Upgradable to 256 access points
- Manage up to a maximum of 1,024 access points in a controller cluster

## Key Series Features

- Integrated appliance for centralised wireless network management
- Integrates seamlessly in any network infrastructure – no modifications required
- An ideal solution to move to Wireless N or Wireless AC from legacy technologies
- Upgrade licenses – pay only for the functionality that you need
- Dynamic wireless network adjustment to ensure top performance at all times
- Can be connected directly to the Internet – ideal for branch offices
- Upgrade licenses available on DWC-1000 for extra VPN and firewall functionality
- Easy-to-use web interface and straightforward configuration
- USB ports for configuration backup and restore
- Enhanced security with captive portal and RADIUS support

## Optional Accessories

### Upgrade licenses:

DWC-1000-AP6-LIC	DWC-1000 Additional Six Access Points Support License
DWC-1000-VPN-LIC	DWC-1000 VPN/Router/Firewall License
DWC-1000-WCF-12-LIC	DWC-1000 Web Content Filtering (By Category) License
DWC-2000-AP32-LIC	DWC-2000 Additional 32 Access Points Support License
DWC-2000-AP64-LIC	DWC-2000 Additional 64 Access Points Support License
DWC-2000-API28-LIC	DWC-2000 Additional 128 Access Points Support License

### Optional Management Software

DV-700	D-View 7 Network Management System for DWC-2000
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MODEL			DWC-1000	DWC-2000
Interfaces	Ethernet	10/100/1000BASE-T Option (WAN/DMZ) Ports	2 <sup>1</sup>	
		10/100/1000BASE-T LAN Ports	4	
		Combo 10/100/1000BASE-T/SFP Ports		4
	USB 2.0 Ports	2	2	
	RJ45 Console Port	•	•	
Capacity and Performance	Maximum Access Points per Unit (Default/Upgrade)		6 / 24 <sup>2</sup>	64 / 256 <sup>2</sup>
	Maximum Access Points per Cluster (Default/Upgrade)		24 / 96 <sup>2</sup>	256 / 1024 <sup>2</sup>
	Concurrent Captive Portal Authentication Users		124 / 400 (Wired/Wireless)	3072
	Dedicated IPsec VPN Tunnels <sup>3</sup>		70	
	Dedicated PPTP/ L2TP VPN Tunnels <sup>3</sup>		16	
	Dedicated SSL VPN Tunnels <sup>3</sup>		20	
Access Point Management	Compatible Managed APs		DWL-2600AP, DWL-3600AP, DWL-6600AP, DWL-6610AP, DWL-6700AP, DWL-8610AP	
	AP Discovery & Control		Layer-2 and Layer-3	Layer-2 and Layer-3
	AP Monitoring		Managed AP Rogue AP Authentication Fail AP Standalone AP	Managed AP Rogue AP Authentication Fail AP Standalone AP
	Client Monitoring		Authenticated Client Rogue Client Authentication Fail Client Ad-Hoc Client	Authenticated Client Rogue Client Authentication Fail Client Ad-Hoc Client
	Centralised RF/Security Policy Management		•	•
	Fast Roaming		•	•
Roaming	Intra-Controller / Inter-Controller Roaming		•	•
	Intra-Subnet / Inter-Subnet Roaming		•	•
Security	Wireless Security		WEP Dynamic WEP WPA Personal/ Enterprise WPA2 Personal/ Enterprise	WEP Dynamic WEP WPA Personal/ Enterprise WPA2 Personal/ Enterprise
	Wireless Intrusion Detection & Prevention System (WIDS)		Rogue and Valid AP Classification Rogue AP Mitigation	Rogue and Valid AP Classification Rogue AP Mitigation
	LAN Security		802.1x Port-Based Access Control and Guest VLAN	802.1x Port-Based Access Control and Guest VLAN
	Authentication		Captive Portal MAC Authentication	Captive Portal MAC Authentication
VLAN	VLAN Group		255 Static	255 Static
	802.1q VLAN Tagging		•	•
	Subnet-Based VLAN		•	•
	Port-Based VLAN		•	•
Firewall System <sup>3</sup>	Policy		Each Feature Supports 100 Rules Supports up to 600 Firewall Rules	
	Dynamic Route		RIPv1, RIPv2	
	Dynamic DNS		•	
	NAT, PAT		•	
	Web Content Filtering		Static URL Keywords	
Networking <sup>3</sup>	Route Failover		•	
	Outbound Load Balancing		•	
Virtual Private Network (VPN) <sup>3</sup>	Encryption Methods		DES, 3DES, AES, Twofish, Blowfish, CAST-128, NULL	
	IPsec NAT Traversal		•	
	Dead Peer Detection		•	
	IP Encapsulating Security Payload (ESP)		•	
	IP Authentication Header (AH)		•	
	VPN Tunnel Keep Alive		•	
SSL Virtual Private Network (SSL VPN) <sup>3</sup>	Hub and Spoke		•	
	SSL Encryption Methods		DES, 3DES, AES	
	SSL Message Integrity		MD5, SHA1	
System Management	Web-Based User Interface		HTTP	HTTP
	Command Line Interface		•	•
	SNMP		v1, v2c, v3	v1, v2c, v3
Physical & Environment	Power Supply		Internal	Internal
	Maximum Power Consumption		19.3 W	26.95 W
	Dimension		180 x 280 x 44 mm	440 x 310 x 44 mm
	Operating Temperature		0°C to 40°C	0°C to 40°C
	Operating Humidity		5% to 95% RH Non-Condensing	5% to 95% RH Non-Condensing

<sup>1</sup>The Option1 port is for connection to a backbone. After activating the DWC-1000-VPN-LIC license, the Option1 port will act as a WAN port for connecting to a cable or DSL modem; and the Option2 port can serve as a WAN or DMZ port for dual WAN connections or internal Server Farm purposes.

<sup>2</sup>The number of managed APs can be increased through purchase of license upgrades.

<sup>3</sup>Features enabled through purchase of the VPN/Router/Firewall license upgrade on DWC-1000.

# Antennas Cables








## ANT Series

### LMR400 Lite Low Loss Cable with N Plug & N Jack





ACCESSORIES	ANT24-CB03N	ANT24-CB06N	ANT24-CB09N
Cable Type	HDF-400	HDF-400	HDF-400
Length	3 m	6 m	9 m
Connection Type	N-Male; N-Female	N-Male; N-Female	N-Male; N-Female
Use With	Outdoor Antennas	Outdoor Antennas	Outdoor Antennas

### ANTENNAS FOR 2.4GHZ BAND

ANT24-SERIES							
MODEL	ANT24-0800	ANT24-0801	ANT24-1200	ANT24-1202	ANT24-1400	ANT24-1800	ANT24-2100
Type	Omni-directional	Directional	Directional	Omni-directional	Directional	Directional	Directional
Indoor / Outdoor	Outdoor	Outdoor	Indoor	Outdoor	Outdoor	Outdoor	Outdoor
Frequency	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz
dBi Rating	8dBi	8.5dBi	12dBi	12dBi	14dBi	18dBi	21dBi
Theoretical Max Distance	1km	1km	2km	2km	3km	5km	10km
Horizontal Spread (degrees)	360	70	80	360	30	15	10
Vertical Spread (degrees)	15	65	23	6	30	15	12
Connector type	N Jack	N Jack	RP SMA	N Jack	N Jack	N Jack	N Jack
Cable Included	0.5m Patch Cable N Plug to RP-SMA	3m Patch Cable N Plug to RP-SMA	3m Patch Cable RP-SMA to RP-SMA	0.5m Patch Cable N Plug to RP-SMA	0.5m Patch Cable N Plug to RP-SMA	0.5m Patch Cable N Plug to RP-SMA	0.5m Patch Cable N Plug to RP-SMA
Mounting Kit Included	✓	✓	✓	✓	✓	✓	✓





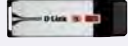

### DUAL BAND ANTENNAS FOR 2.4GHZ AND 5GHZ

ANT70-SERIES				
MODEL	ANT70-0800	ANT70-1000	ANT70-1400N	ANT70-1800
Type	Omni-directional	Directional	Directional	Directional
Indoor / Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Frequency	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz
dBi Rating	8dBi	10dBi	11dBi (2.4GHz) 12-14dBi (5GHz)	14dBi (2.4GHz) 18dBi (5GHz)
Theoretical Max Distance	1km	1.5km	8km	8km
Horizontal Spread (degrees)	360 (2.4GHz & 5GHz)	58 (2.4GHz) 45 (5GHz)	40-44 (2.4GHz) 19-22 (5GHz)	30 (2.4GHz) 15 (5GHz)
Vertical Spread (degrees)	55 (2.4GHz) 20 (5GHz)	55 (2.4GHz) 45 (5GHz)	38-41 (2.4GHz) 25-31 (5GHz)	30 (2.4GHz) 15 (5GHz)
Connector Type	N Jack	N Jack	N Jack	N Jack
Cable Included	0.5m Patch cable N Plug to RP-SMA	0.5m Patch cable N Plug to RP-SMA	3x 0.5m Patch cables N Plug to RP-SMA	0.5m Patch cable N Plug to RP-SMA
Mounting Kit Included	✓	✓	✓	✓










# Wireless Network Adapters

## DWA Series

D-Link's DWA range of wireless adapters provides the perfect solution to add super-fast Wireless AC to any computer, whether desk-bound or on the go. With USB plug-and-play 'dongles', and PCI/PCIe hard-wired adapter for PCs, you can enjoy a transformed wireless Internet connection using the fastest wireless technology available today.

D-LINK NETWORK ADAPTERS (WIRELESS)						
CHOOSE THE D-LINK NETWORK ADAPTER THAT'S RIGHT FOR YOUR HOME OR BUSINESS	WIRELESS AC				WIRELESS N600	
						
MODEL	DWA-192	DWA-182	DWA-582	DWA-171	DWA-160	DWA-566
Description	Wireless AC1900 Dual Band USB Adapter	Wireless AC1200 Dual Band USB Adapter	Wireless AC1200 Dual Band PCIe Desktop Adapter	Wireless AC600 Dual Band Nano USB Adapter	Wireless N600 Dual Band USB Adapter	Wireless N600 Dual Band PCIe Desktop Adapter
Wireless Technology	Dual Band* Wireless AC (1900Mbps)	Dual Band* Wireless AC (1200Mbps)	Dual Band* Wireless AC (1200Mbps)	Dual Band* Wireless AC (600Mbps)	Dual Band* Wireless N (600Mbps)	Dual Band* Wireless N (600Mbps)
Interface	USB 3.0	USB 3.0	PCI Express	USB 2.0	USB 2.0	PCI Express
Low Profile Bracket	-	-	✓	-	-	✓
Cradle Extension Included	-	✓	-	-	✓	-

\*Dual-band selectable between 2.4GHz & 5GHz

D-LINK NETWORK ADAPTERS (WIRELESS)									
CHOOSE THE D-LINK NETWORK ADAPTER THAT'S RIGHT FOR YOUR HOME OR BUSINESS	WIRELESS N300					WIRELESS N150			
									
MODEL	DWA-140	DWA-137	DWA-132	DWA-131	DWA-548	DWA-525	DWA-127	DWA-125	DWA-123
Description	Wireless N300 USB Adapter	Wireless N300 High Gain USB Adapter	Wireless N300 USB Adapter	Wireless N300 Nano USB Adapter	Wireless N300 PCIe Desktop Adapter	Wireless N150 PCI Desktop Adapter	Wireless N150 High Gain USB Adapter	Wireless N150 USB Adapter	Wireless N150 USB Adapter
Wireless Technology	Single Band Wireless N (300Mbps)	Single Band Wireless N (300Mbps)	Single Band Wireless N (300Mbps)	Single Band Wireless N (300Mbps)	Single Band Wireless N (300Mbps)	Single Band Wireless N (150Mbps)	Single Band Wireless N (150Mbps)	Single Band Wireless N (150Mbps)	Single Band Wireless N (150Mbps)
Interface	USB 2.0	USB 2.0	USB 2.0	USB 2.0	PCI Express	PCI	USB 2.0	USB 2.0	USB 2.0
Low Profile Bracket	-	-	-	-	✓	✓	-	-	-
Cradle Extension Included	✓	-	-	-	-	-	-	✓	-



# Unified Services Routers

## DSR Series

Every day, businesses face potential security breaches from every direction to their network: virus attacks, file sharing, messaging abuse, spyware and many others. Remote workers can unintentionally provide hostile threats with back-door access to your business. With such a diversity of threat, gone are the days when a simple, protective firewall was enough. And managing a host of different remedies is inefficient and difficult.

D-Link's Unified Services Routers offer secure, high-performance networking solutions to address the growing data-security needs of businesses. These routers are packed with advanced security and management features that are easily integrated into your existing infrastructure and which provide remote workers with secure access through the powerful VPN engine.

D-Link's Unified Services Routers are, essentially, all-in-one gateway devices providing outstanding performance and rich functionalities, including IEEE 802.11a/b/g/n/ac, secure wireless access, 3G WAN redundancy, IPv6 and comprehensive VPN features. The DSR Series provide a signature package to enhance the security of your network by identifying intrusion patterns and blocking external threats.



### Principle Product Features

#### DSR-250N

- 10/100/1000BASE-T (WAN) port x 1
- 10/100/1000BASE-T (LAN) ports x 8
- IEEE 802.11b/g/n wireless LAN (2.4 GHz)
- USB 2.0 port x 1
- 2dBi dipole antennas x 2 (detachable)
- 3G WAN Backup via USB

#### DSR-500

- 10/100/1000BASE-T (WAN) ports x 2
- 10/100/1000BASE-T (LAN) ports x 4
- USB 2.0 port x 1
- 3G WAN Backup via USB

#### DSR-500AC

- 10/100/1000BASE-T (WAN) ports x 2
- 10/100/1000BASE-T (LAN) ports x 4
- IEEE 802.11a/b/g/n/ac wireless LAN (2.4 GHz or 5GHz Selectable)
- USB 2.0 port x 1
- 2dBi dipole antennas x 2 (detachable)
- 3G WAN Backup via USB

#### DSR-1000

- 10/100/1000BASE-T (WAN) ports x 2
- 10/100/1000BASE-T (LAN) ports x 4
- USB 2.0 ports x 2
- 3G WAN Backup via USB

#### DSR-1000AC

- 10/100/1000BASE-T (WAN) ports x 2
- 10/100/1000BASE-T (LAN) ports x 4
- IEEE 802.11a/b/g/n/ac wireless LAN (2.4 GHz & 5 GHz Concurrent)
- USB 2.0 ports x 2
- 2dBi dipole antennas x 3 (detachable)
- 3G WAN Backup via USB

### Key Series Features

- Static/dynamic IP WAN type
- Point-to-Point Protocol over Ethernet (PPPoE)
- SSL/IPSec/PPTP/L2TP VPN
- VPN hub and spoke
- IPSec/PPTP/L2TP VPN pass-through
- 3G WAN redundancy via optional 3G USB modem
- Network Address Translation (NAT), PAT
- WAN traffic failover
- Outbound load balancing (DSR-500/500AC/ 1000/1000AC only)
- Remote management (Web, SNMP, SSH, Telnet)
- Internet Group Management Protocol (IGMP) proxy/snooping
- Stateful Packet Inspection (SPI)
- IP/MAC binding
- Virtual LAN (VLAN)
- Intrusion Prevention System (IPS)
- Wireless Security\* (WEP, WPA, WPA2, WPS)
- Multiple SSIDs, SSID-to-VLAN mapping\*





MODEL		DSR-250N	DSR-500	DSR-500AC	DSR-1000	DSR-1000AC
Interfaces	Gigabit Ports (WAN)	1	2	2	2	2
	Gigabit Ports (LAN)	8	4	4	4	4
	USB	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0	2 x USB 2.0	2 x USB 2.0
	Console	1 x RJ45				
Performance	Firewall Throughput	750 Mbps	950 Mbps	950 Mbps	950 Mbps	950 Mbps
	VPN Throughput	50 Mbps	70 Mbps	200 Mbps	100 Mbps	250 Mbps
	Concurrent Sessions	20,000	30,000	50,000	60,000	100,000
	New Sessions (Per Second)	200	300	500	600	1000
	Firewall Policies	200	300	600	600	600
Internet Connection Type		DHCP, Static IP, PPPoE, L2TP, PPTP				
Firewall System	Static Route	•				
	Dynamic Route	RIPv1, RIP v2, OSPF				
	Dynamic DNS	•				
	Inter-VLAN Route	•				
	NAT, PAT	•				
	Web Content Filtering	Static URL, Keywords				
Intrusion Prevention System (IPS)		Signature Package Included in Firmware				
Networking	DHCP Server/Client	•				
	DHCP Relay	•				
	IEEE802.1q VLAN	•				
	VLAN (Port-Based)	•				
	IP Multicast	IGMP Proxy				
	IPv6	•				
	Route Failover	•				
	Outbound Load Balancing	•				
	3G Redundancy	•				
Wireless*	Multiple Service Set Identifier (SSID)	•		•		•
	Service Set Identifier (SSID) to VLAN Mapping	•		•		•
	Standards	802.11b/g/n		802.11a/b/g/n/ac		802.11a/b/g/n/ac
	Wireless Security	WEP/WPS/WPA-PSK/WPA-EAP/WPA2-PSK/WPA2-EAP		WEP/WPS/WPA-PSK/WPA-EAP/WPA2-PSK/WPA2-EAP		WEP/WPS/WPA-PSK/WPA-EAP/WPA2-PSK/WPA2-EAP
	VPN Tunnels	65	85	85	135	135
VPN	IPSec Tunnels	25	35	35	70	70
	SSL VPN Tunnels	5	10	10	20	20
	PPTP/L2TP Tunnels	25	25	25	25	25
	GRE	10	15	15	20	20
	Encryption Methods	DES, 3DES, AES, Twofish, Blowfish, CAST-128, NULL				
	SSL Encryption Methods	RC4-128, 3DES, AES				
	IPSec/PPTP/L2TP Server	•				
	IPSec NAT Traversal	•				
	Dead Peer Detection	•				
	IP Encapsulating Security Payload (ESP)	•				
	IP Authentication Header (AH)	•				
	VPN Tunnel Keep Alive	•				
	Hub and Spoke	•				
	Bandwidth Management	Maximum Bandwidth Control	•			
Priority Bandwidth Control		Port-Based QoS, 3 Classes				
System Management	Web-Based User Interface	HTTP, HTTPS				
	Command Line	•				
	SNMP	v1 / v2c / v3				
Physical and Environmental	Power Supply	External	Internal			
	Maximum Power Consumption	12.6 W	15.6 W	16.8 W	17.2 W	19.3 W
	Dimensions (L x W x H)	140 x 203 x 35 mm	180 x 280 x 44 mm			
	Operating Temperature	0°C to 40°C				
Operating Humidity	5% to 95% RH Non-Condensing					

\* Applicable to Wireless Model only.

# Video Surveillance



The security of your business is at risk if there is no surveillance or monitoring system in place to protect your assets. Choosing to implement video surveillance brings many advantages, not least of which is that in most cases you can utilise your existing data network infrastructure to maximise investment. Digital video surveillance not only provides all of the superior functionality of an effective analogue CCTV offering, but adds several key benefits, such as increased accessibility, real-time alerts, unlimited video storage, secure image distribution and superior cost benefits, not to mention, of course, the peace of mind that comes with knowing your business premises are being monitored 24/7. Products under this category include IP cameras, network video recorders and video encoders. Many of D-Link's IP cameras are PoE-equipped, making installation simpler and more cost-effective when used in conjunction with PoE-capable switches, and there are plenty in the range that are wireless, again simplifying location positioning.

## Key to icons used

In the following pages you're going to come across these icons. Here's what they mean...

**mydlink™**  
mydlink™  
Uses D-Link's cloud to link you and your camera up and monitor remotely in real time

**ONVIF**  
Onvif  
Conforms to standards established by the Open Network Video Interface Forum

**Wireless**  
Wireless-equipped to work with Wi-Fi networks

**Ethernet**  
Equipped with hard-wired connection. Look for speed/number at bottom

**Power over Ethernet**  
Power over Ethernet  
Device draws its power from the PoE switch, eliminating separate power supply

**Optical Zoom**  
Optical Zoom  
Camera is equipped with physical zoom. Figure gives the zoom level

**just connect™**  
JustConnect™  
Monitor camera live view via iOS/Android devices. Require port forwarding & DDNS

**USB Ports**  
USB Ports  
Device equipped with USB. Text gives speed and number of ports

**2-Bay**  
Bay Capacity  
Indicates that a Network Video Recorder has two bays for SATA drives



# Choosing your Network Cameras

D-Link deliver a complete line of full-featured Network Cameras offering the surveillance capabilities your business need. They're designed with the latest technology, from Power over Ethernet (PoE or PoE+), on-board video processing, motion and tamper detection, high definition and multi-megapixel resolution, ICR for recording in any light conditions, H.264/MPEG-4/MJPEG compression, pan/tilt/zoom (PTZ) and more. All for less than competitive solutions — so you can do more with your security budget.



## CUBE CAMERAS

Designed for use in small businesses and residential applications, D-Link cube cameras are an attractive entry-level surveillance camera solution. Offering HD / Full HD resolution, the ability to see in complete darkness and two-way audio with a built-in microphone and speaker, D-Link professional cube cameras are high-end cameras in small, easy-to-install packages.



## BOX CAMERAS

Available in HD / Full HD and multi-megapixel resolutions, D-Link box cameras can be mounted indoors with an included mounting bracket or outdoors with an optional outdoor enclosure. Since all D-Link box cameras use standard CS-Mount lenses, it is possible to replace the included lens with an extreme wide angle or telephoto lens.

Because of their simple design, box cameras are easier to install, aim and focus. D-Link box cameras offer day / night functionality, SD card storage and two-way audio. Models with wide dynamic range sensors are available.



## BULLET CAMERAS

Bullet cameras are a variation of the box camera built into a sealed, weatherproof enclosure. They can be used indoors or outdoors without the need for additional hardware (a wall mount is included).

Bullet cameras are often used because of their all-in-one design and attractive pricing. D-Link bullet cameras are available in HD / Full HD resolution, offer day & night functionality and integrated infrared illumination.



## INDOOR DOME CAMERAS

D-Link indoor dome cameras offer an aesthetic design wherein the camera, lens and cabling are hidden and protected inside of a domed enclosure.

D-Link indoor dome cameras are available in HD / Full HD resolution, offer day / night functionality, integrated IR illumination, two-way audio and integrated memory card storage.



## OUTDOOR DOME CAMERAS

D-Link outdoor dome cameras offer an aesthetic design wherein the camera, lens and cabling are hidden and protected inside of a domed enclosure. Built with a rugged vandal-proof and weatherproof design and extended temperature range operation, D-Link outdoor dome cameras are available in HD / Full HD and multi-megapixel resolution, offer day / night functionality, integrated IR illumination, two-way audio and integrated memory card storage.









# Range Overview

## Fixed Cameras (Indoor)

WIRED/WIRELESS	 DCS-930L	 DCS-933L	 DCS-942L	 DCS-2132L	 DCS-2136L	 DCS-2230L	 DCS-7000L
WIRED/POE	 DCS-2210L	 DCS-3010	 DCS-3112	 DCS-3511	 DCS-3715		
WIRELESS	 DCS-935L	 DCS-960L	 DCS-2630L				

## Fixed Cameras (Outdoor)

WIRED/POE	 DCS-2310L	 DCS-7010L	 DCS-7110	 DCS-7513	 DCS-7517
WIRED/WIRELESS	 DCS-2330L				

## Panoramic and Mini Dome Cloud Cameras (Indoor)



## Dome Cameras (Indoor/Outdoor)



## PTZ Cameras (Indoor/Outdoor)



## Vigilance Range



# Fixed Network Cameras (Wired / Wireless)

D-Link's range of fixed network cameras are designed to meet the needs of businesses looking to implement a cost-effective monitoring system indoors, and who might also be looking for night-vision capabilities with either a hard-wired or wireless camera. All cameras offer motion detection with notification, so peace of mind comes already built in...

## DCS-930L Wireless Cloud Camera



- 1/5" VGA progressive scan CMOS sensor
- 640 x 480 resolution
- Built-in microphone
- Motion detection, Sound detection and e-mail notification with snapshots



mydlink

## DCS-933L Wireless Day/Night Cloud Camera



- 1/5" VGA progressive scan CMOS sensor
- 640 x 480 resolution
- Up to 5 m night vision with integrated IR illuminator
- Built-in microphone
- Motion detection, Sound detection and e-mail notification with snapshots
- Built-in wireless extender (recommended up to 2 wireless clients)



mydlink

## DCS-942L Wireless Enhanced Day/Night Cloud Camera



- 1/5" VGA progressive scan CMOS sensor
- 640 x 480 resolution
- Up to 5 m night vision with integrated IR illuminator
- Two-way audio with built-in microphone and external speaker output
- Recording to local microSD card slot (up to 32GB)
- Integrated PIR motion sensor
- Motion detection, Sound detection and E-Mail Notification with Snapshots.



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## DCS-2132L HD Wireless Day/Night Cloud Camera



- 1/4" 1 megapixel progressive scan CMOS sensor
- HD 720p resolution
- Up to 5 m night vision with integrated IR illuminator
- Two-way audio with built-in microphone and speaker
- Integrated PIR motion sensor
- Motion/Sound detection, event recording and e-mail notification with snapshots



mydlink ONVIF

## DCS-2136L HD Wireless AC Day/Night Cloud Camera with Colour Night Vision

Wireless AC



- 1/3" 1 megapixel progressive scan CMOS sensor supporting Wide Dynamic Range (WDR) and White light LED
- HD 720p resolution
- Up to 5 m colour night vision with integrated white light illuminator
- Two-way audio with built-in microphone and speaker
- Recording to local microSD card slot (up to 32 GB) or to a NAS device
- Integrated PIR motion sensor



mydlink ONVIF

## DCS-2230L Full HD Wireless Day/Night Cloud Camera



- 1/2.7" 2 megapixel progressive scan CMOS sensor
- Full HD 1080p resolution
- Up to 5 m night vision with integrated IR illuminator
- Two-way audio with built-in microphone and speaker
- Recording to local microSD card slot (up to 64 GB\*) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Integrated PIR sensor for enhanced motion detection



mydlink ONVIF

## DCS-7000L HD Wireless AC Day/Night Mini Bullet Cloud Camera

Wireless AC



- 1/4" megapixel progressive scan CMOS sensor
- HD 720p resolution
- Up to 8 m night vision with integrated IR illuminator
- Two-way audio with external microphone and external speaker
- Recording to local microSD card slot (up to 128 GB\*) or to a NAS device
- Motion/Sound detection, event recording and e-Mail notification with snapshots



mydlink ONVIF

## What is mydlink™?

mydlink™ is a cloud-based platform that allows you to quickly and easily view your live mydlink-enabled camera feeds and manage your mydlink-enabled routers from anywhere with an Internet connection. Whether you are at the office, having an evening out, or away on holiday, the mydlink™ Lite app gives you access to your mydlink-enabled camera, router and network video recorder, even when you are on-the-go.

mydlink



MODEL	DCS-930L	DCS-933L	DCS-942L	DCS-2132L	DCS-2136L	DCS-2230L	DCS-7000L
<b>IMAGE SENSOR</b>							
Type	1/5" VGA Progressive Scan CMOS	1/5" VGA Progressive Scan CMOS	1/5" VGA Progressive Scan CMOS	1/4" 1 Megapixel Progressive Scan CMOS	1/3" 1 Megapixel Progressive Scan CMOS	1/2.7" 2 Megapixel Progressive Scan CMOS	1/4" 1 Megapixel Progressive Scan CMOS
Megapixel				•	•	•	•
Wide Dynamic Range (WDR)					•		
White Light LED					•		
Maximum Video Resolution	640 x 480	640 x 480	640 x 480	1280 x 720	1280 x 720	1920 x 1080	1280 x 720
<b>LENS</b>							
Type	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
Focal Length	3.15 mm	3.15 mm	3.15 mm	3.45 mm	3.6 mm	2.8 mm	2.4 mm
F-Number	F2.8	F2.8	F2.8	F2.0	F1.4	F1.8	F2.0
Minimum Illumination (Lux)	1 Lux	1 Lux (Colour) 0 Lux (B&W, IR-LED on)	1 Lux (Colour) 0 Lux (B&W, IR-LED on)	1 Lux (Colour) 0 Lux (B&W, IR-LED on)	1 Lux (Colour) 0 Lux (Colour, White Light LED on)	1 Lux (Colour) 0 Lux (B&W, IR-LED on)	1 Lux (Colour) 0 Lux (B&W, IR-LED on)
Angle of View (Horizontal/Vertical/Diagonal)	45.3° / 34.5° / 54.9°	45.3° / 34.5° / 54.9°	45.3° / 34.5° / 54.9°	57.8° / 37.8° / 66°	64° / 46.5° / 92.4°	103° / 55° / 118°	98° / 52° / 115°
Motorised Pan/Tilt							
Optical Zoom							
Privacy Masks				•	•	•	•
<b>DAY AND NIGHT</b>							
ICR Filter		•	•	•		•	•
Built-in PIR			•	•	•	•	
Built-in IR		5 m	5 m	5 m	5 m (White Light)	5 m	8 m
<b>AUDIO</b>							
Two-Way Audio			•	•	•	•	•
Built-in Microphone	•	•	•	•	•	•	•
External Microphone Input							•
Built-in Speaker				•	•	•	
External Speaker Output			•				•
<b>CONNECTIVITY</b>							
Wired LAN	•	•	•	•	•	•	•
Wireless LAN	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 a/b/g/n/ac	802.11 b/g/n	802.11 a/b/g/n/ac
Built-in Wi-Fi Extender		•					
802.3af PoE							
Digital Input/Output				DI x 1, DO x 1	DI x 1, DO x 1	DI x 1, DO x 1	
Video Out							
Memory Card Slot			• (Micro-SD, up to 32 GB)	• (Micro-SD, up to 32 GB)	• (Micro-SD, up to 32 GB)	• (Micro-SD, up to 64 GB)*	• (Micro-SD, up to 128 GB)*
<b>SOFTWARE FEATURES</b>							
Video Format	MJPEG	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MJPEG	H.264, MJPEG
Digital Zoom	4 x	4 x	4 x	10 x	10 x	10 x	10 x
Electronic Pan/Tilt (ePTZ)				•	•	•	•
HTTP Secure (HTTPS)			•	•	•	•	•
Sound Detection	•	•	•	•	•	•	•
Motion Detection	•	•	•	•	•	•	•
E-Mail Notification	•	•	•	•	•	•	•
Samba Recording to NAS				•	•	•	•
UPnP Installation	•	•	•	•	•	•	•
DDNS Support	•	•	•	•	•	•	•
mydlink™ -enabled	•	•	•	•	•	•	•
D-ViewCam™ Compatible	•	•	•	•	•	•	•
<b>PHYSICAL AND ENVIRONMENT</b>							
Dimensions	80 x 80 x 126.6 mm	80 x 115 x 80 mm	80 x 80 x 126.6 mm	58 x 89 x 127.9 mm	58 x 43.1 x 128.8 mm	89 x 58 x 127.9 mm	93 x 56 x 49 mm
Weight	80.1 g	96.2 g	112 g	116 g	129 g	75 g	160 g
Maximum Power Consumption	1.84 W	4 W	4.2 W	3.65 W	4 W	4 W	3.5 W
Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C
Operating Humidity	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing

\* Compatible with micro-SD SD/SDHC/SDXC cards up to v3.01. Not compatible with v4.x cards.

# Fixed Network Cameras (Wireless - Indoor)

D-Link has developed new range of fixed network cameras that are in-built with latest Wireless AC technology to give user high bandwidth connection for improved range and more flexible placement via micro-USB powered connector. Unlike traditional cameras, the DCS-960L and DCS-2630L use an ultra-wide view lens to give you full 180° field of view, letting you cover the entire room with a single camera. The built-in de-warping technology gives you distortion-free image, and the HD/Full HD sensor captures fine details with ease.

## DCS-935L HD Wireless AC Day/Night Cloud Camera



- 1/4" 1 megapixel progressive scan CMOS sensor
- HD 720p resolution
- Up to 5 m night vision with integrated IR illuminator
- Built-in microphone
- Motion/Sound detection and e-mail notification with snapshots
- Powered via micro-USB port



mydlink

## DCS-960L HD Ultra-Wide View Wireless AC Day/Night Cloud Camera



- 1/2.7" 1 megapixel progressive scan CMOS sensor
- HD 720p resolution
- Up to 5 m night vision with integrated IR illuminator
- Wide angle lens with hardware de-warping for clear whole-room coverage
- Built-in microphone
- Recording to local microSD card slot (up to 128GB\*)
- Motion detection, Sound detection and E-Mail Notification with Snapshots
- Powered via micro-USB port



mydlink

## DCS-2630L Full HD Ultra-Wide View Wireless AC Day/Night Cloud Camera



- 1/3" 3 megapixel progressive scan CMOS sensor
- Full HD 1080p resolution
- Up to 5 m night vision with integrated IR illuminator
- Wide angle lens with hardware de-warping for clear whole-room coverage
- Two-way audio with built-in microphone and speaker
- Recording to local microSD card slot (up to 128GB\*)
- Integrated PIR motion sensor
- Motion/Sound detection, event recording and e-mail notification with snapshots
- Powered via micro-USB port



mydlink





MODEL	DCS-935L	DCS-960L	DCS-2630L
<b>IMAGE SENSOR</b>			
Type	1/4" 1 Megapixel Progressive Scan CMOS	1/2.7" 1 Megapixel Progressive Scan CMOS	1/3" 3 Megapixel Progressive Scan CMOS
Megapixel	•	•	•
Wide Dynamic Range (WDR)			
Wide Angle Lens		•	•
Maximum Video Resolution	1280 x 720	1280 x 720	1920 x 1080
<b>LENS</b>			
Type	Fixed	Fixed	Fixed
Focal Length	2.38 mm	1.72 mm	1.72 mm
F-Number	F2.4	F2.0	F2.0
Minimum Illumination (Lux)	1 Lux (Colour) 0 Lux (B&W, IR-LED on)	0.5 Lux (Colour) 0 Lux (B&W, IR-LED on)	1 Lux (Colour) 0 Lux (B&W, IR-LED on)
Angle of View (Horizontal/Vertical/Diagonal)	78.44° / 47.9° / 85.98°	180° / 120° / 180°	180° / 112° / 180°
Motorised Pan/Tilt			
Optical Zoom			
Privacy Masks			
<b>DAY AND NIGHT</b>			
ICR Filter	•	•	•
Built-in PIR			•
Built-in IR	5 m	5 m	5 m
<b>AUDIO</b>			
Two-Way Audio			•
Built-in Microphone	•	•	•
External Microphone Input			
Built-in Speaker			•
External Speaker Output			
<b>CONNECTIVITY</b>			
Wired LAN			
Wireless LAN	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac
802.3af PoE			
Digital Input/Output			
Video Out			
Memory Card Slot		• (Micro-SD, up to 128 GB*)	• (Micro-SD, up to 128 GB*)
<b>SOFTWARE FEATURES</b>			
Video Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Digital Zoom	4 x	8 x	8 x
Electronic Pan/Tilt (ePTZ)			
HTTP Secure (HTTPS)	•	•	•
Sound Detection	•	•	•
Motion Detection	•	•	•
E-Mail Notification	•	•	•
Samba Recording to NAS			
UPnP Installation	•	•	•
DDNS Support	•	•	•
mydlink™ -enabled	•	•	•
D-ViewCam™ Compatible	•	•	•
<b>PHYSICAL AND ENVIRONMENT</b>			
Dimensions	66.8 x 84.5 x 124.85 mm	95.8 x 95.8 x 137.5 mm	140 x 83 x 53.7 mm
Weight	160 g	165 g	345 g
Maximum Power Consumption	3.5 W	4.8 W	5.65 W
Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C
Operating Humidity	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing

\* Compatible with micro-SD SD/SDHC/SDXC cards up to v3.01. Not compatible with v4.x cards.

# Fixed Network Cameras (Wired – Indoor)

This range of wired indoor network cameras are perfect for larger offices or campus locations where 24/7 security is paramount, since the built-in Power over Ethernet capability enables them to be powered from just the one data cable direct to the switch. A full range of features makes it easy to find the perfect fit for your surveillance needs.

## DCS-2210L Full HD PoE Day/Night Cloud Camera



- 1/2.7" 2 megapixel progressive scan CMOS sensor
- Fixed lens (2.8 mm, F1.8)
- Full HD 1080p resolution
- Up to 5 m night vision with integrated IR illuminator
- 10 x digital zoom
- Two-way audio with built-in microphone and speaker
- Supports MJPEG and H.264 video formats
- Recording to local microSD card slot (up to 64 GB\*) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Integrated PIR sensor for enhanced motion detection

## DCS-3010 HD PoE Fixed Network Camera



- 1/4" 1 megapixel progressive scan CMOS sensor
- HD 720p resolution
- 4 x digital zoom
- Two-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot (up to 32 GB) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots

## DCS-3112 HD PoE Day/Night Fixed Network Camera



- Sony 1/4" 1.3 megapixel progressive scan CMOS sensor
- CS mount DC iris varifocal Lens (3.5mm~8 mm, F1.4)
- HD 720p resolution
- 10 x digital zoom
- Two-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local SD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Infrared-cut removable (ICR) filter for recording in low-light conditions

## DCS-3511 HD PoE Day/Night Fixed Network Camera



- 1/4" 1 megapixel progressive scan CMOS sensor
- CS mount DC iris varifocal lens (2.8mm~12 mm, F1.4)
- HD 720p resolution
- 4 x digital zoom
- Two-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot (up to 32 GB) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Infrared-cut removable (ICR) filter for recording in low-light conditions

## DCS-3715 Full HD PoE Day/Night Fixed Network Camera



- 1/2.7" 2 megapixel progressive scan CMOS sensor
- CS mount DC iris varifocal Lens (2.8mm~12mm, F1.2)
- Full HD 1080p resolution
- 4 x digital zoom
- Two-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local SD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Infrared-cut removable (ICR) filter for recording in low-light conditions



MODEL	DCS-2210L	DCS-3010	DCS-3112	DCS-3511	DCS-3715
<b>IMAGE SENSOR</b>					
Type	1/2.7" 2 Megapixel Progressive Scan CMOS	1/4" 1 Megapixel Progressive Scan CMOS	Sony Exmor 1/4" 1.3 Megapixel Progressive Scan CMOS	1/4" 1 Megapixel Progressive Scan CMOS	1/2.7" 2 Megapixel Progressive Scan CMOS
Megapixel	•	•	•	•	•
Wide Dynamic Range (WDR)					
Maximum Video Resolution	1920 x 1080	1280 x 720	1280 x 720	1280 x 800	1920 x 1080
<b>LENS</b>					
Type	Fixed	Fixed	Varifocal, DC Iris,	Varifocal, DC Iris	Varifocal, DC Iris
Focal Length	2.8 mm	4 mm	3.5 mm~8 mm	2.8mm~12 mm	2.8mm~12 mm
F-Number	F1.8	F1.5	F1.4	F1.4	F1.2
Minimum Illumination (Lux)	1 Lux (Colour) 0 Lux (B&W, IR-LED on)		0.4 Lux (Colour) 0.04 Lux (B/W)	0.1 Lux (Colour) 0.05 Lux (B/W)	0.06 Lux (Colour) 0.001 Lux (B/W)
Angle of View (Horizontal/Vertical/Diagonal)	103° / 55° / 118°	56.9° / 35.9°	35.4°~77.6° / 26.6°~57.6° / 44.3°~97.9°	77.5°~22.7° / 53.3°~14.5° / 82.5°~27°	29.1°~118.3° / 16.5°~63.6°
Motorised Pan/Tilt					
Optical Zoom					
Privacy Masks	•	•	•	•	•
<b>DAY AND NIGHT</b>					
ICR Filter	•		•	•	•
Built-in IR	5 m				
<b>AUDIO</b>					
Two-Way Audio	•	•	•	•	•
Built-in Microphone	•				
External Microphone Input		•	•	•	•
Built-in Speaker	•				
External Speaker Output		•	•	•	•
<b>CONNECTIVITY</b>					
Wired LAN	•	•	•	•	•
Wireless LAN					
802.3af PoE		•		•	•
Digital Input/Output	DI x 1, DO x 1		DI x 2, DO x 1	DI x 1, DO x 1	DI x 1, DO x 1
Video Out			BNC		
Memory Card Slot	• (Micro-SD, up to 64 GB*)	• (Micro-SD, up to 32 GB)	• (SD, up to 32 GB)	• (Micro-SD, up to 32 GB)	• (SD, up to 32 GB)
<b>SOFTWARE FEATURES</b>					
Video Format	H.264, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MJPEG, MPEG-4	H.264, MPEG-4, MJPEG
Digital Zoom	10 x	4 x	10 x	4 x	4 x
Electronic Pan/Tilt (ePTZ)	•	•	•	•	•
HTTP Secure (HTTPS)	•	•	•	•	•
Sound Detection					
Motion Detection	•	•	•	•	•
E-Mail Notification	•	•	•	•	•
Samba Recording to NAS	•	•	•	•	•
UPnP Installation	•	•	•	•	•
DDNS Support	•	•	•	•	•
mydlink™-enabled	•				
D-ViewCam™ Compatible	•	•	•	•	•
<b>PHYSICAL AND ENVIRONMENT</b>					
Dimensions	89 x 58 x 127.9 mm	147 x 61.9 x 39.2 mm	180.4 x 80 x 52.9 mm	131.7 x 68.9 x 45.7 mm	216 x 80 x 53 mm
Weight	80 g	165 g	560 g	150 g	605 g
Maximum Power Consumption	3.5 W	6.6 W	3.6 W	2.88 W	3.744 W
Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C
Operating Humidity	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing	90% RH Non-Condensing

\* Compatible with micro-SD SDHC/SDXC cards up to v3.01. Not compatible with v4.x cards.

# Fixed Network Cameras (Wired – Outdoor)

This selection of fixed, wired cameras are all built to IP65/66/67/68 standard, so they're weather-proof and designed specifically for use outside. Additional features such as long-distance night vision, digital zoom and motion detection/alert make them perfect for the perimeter areas of buildings, alleyways or other dimly lit areas.

## DCS-2310L Outdoor HD PoE Day/Night Cloud Camera



- 1/4" 1 megapixel progressive scan CMOS sensor
- Fixed lens (3.45 mm, F 2.0)
- HD 720p resolution
- Up to 5 m night vision with integrated IR illuminator
- 10 x digital zoom
- Two-way audio with built-in microphone and speaker
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot (up to 32 GB) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Integrated PIR sensor for enhanced motion detection

## DCS-7010L Outdoor HD PoE Day/Night Mini Bullet Cloud Camera



- 1/4" 1 megapixel progressive scan CMOS sensor
- Fixed lens (3.6 mm, F1.8)
- HD 720p resolution
- Up to 10 m night vision with integrated IR illuminator
- 10 x digital zoom
- Two-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 Video Formats
- Recording to local microSD card slot (up to 32 GB) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- IP67 weatherproof housing

## DCS-7110 Outdoor Full HD PoE Day/Night Fixed Bullet Network Camera



- 1/2.7" 2 megapixel progressive scan CMOS sensor
- Fixed lens (4 mm, F1.5)
- Full HD 1080p resolution
- Up to 15 m night vision with integrated IR illuminator
- 4 x digital zoom
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Tamper detection
- IP66 weatherproof housing

## DCS-7513 Outdoor Full HD PoE Varifocal WDR Day/Night Fixed Bullet Network Camera



- 1/2.8" 2 megapixel progressive scan CMOS sensor
- Motorized P-iris varifocal lens (3~9 mm)
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme-contrast environments
- Full HD 1080p resolution
- Up to 30 m night vision with integrated IR illuminator
- 10 x digital zoom
- Two-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local SD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- IP68 weatherproof housing

## DCS-7517 Outdoor 5 Megapixel PoE WDR Day/Night Fixed Bullet Network Camera



- 1/3.2" 5 megapixel progressive scan CMOS sensor
- Motorized DC iris varifocal lens (2.8 ~ 12 mm)
- Full HD 1080p resolution
- Up to 30 m night vision with integrated IR illuminator
- 4 x digital zoom
- Two-way audio with external microphone input and speaker output
- Supports MJPEG and H.264 video formats
- Recording to local microSD card slot (up to 64 GB\*) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- IP66 weatherproof housing

## How is Weatherproofing rated?

The industry standard for weatherproof housings, as used by D-Link, have the following meanings:

- IP65: Dust-tight; Water projected by a nozzle (6.3 mm nozzle at 12.5 litres/min) against enclosure from any direction shall have no harmful effects.
- IP66: Dust-tight; Water projected in powerful jets (12.5 mm nozzle 100 litres/min) against the enclosure from any direction shall have no harmful effects.
- IP67: Dust-tight; Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water up to 1m deep for 30 minutes.
- IP68: Dust-tight; Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water up to 3m deep indefinitely.

MODEL	DCS-2310L	DCS-7010L	DCS-7110	DCS-7513	DCS-7517
<b>IMAGE SENSOR</b>					
Type	1/4" 1 Megapixel Progressive Scan CMOS	1/4" 1 Megapixel Progressive Scan CMOS	1/2.7" 2 Megapixel Progressive Scan CMOS	1/2.8" 2 Megapixel Progressive Scan CMOS	1/3.2" 5 Megapixel Progressive Scan CMOS
Megapixel	•	•	•	•	•
Wide Dynamic Range (WDR)				•	•
Maximum Video Resolution (Pixels)	1280 x 800	1280 x 800	1920 x 1080	1920 x 1080	1920 x 1080
<b>LENS</b>					
Type	Fixed	Fixed	Fixed	Motorised P-Iris Varifocal Lens	Varifocal, DC Iris
Focal Length	3.45 mm	3.6 mm	4 mm	3~9 mm	2.8~12 mm
F-Number	F2.0	F1.8	F1.5	F1.2	F1.8
Minimum Illumination (Lux)	1 Lux (Colour) 0 Lux (B&W, IR-LED on)	1.5 Lux (Colour) 0 Lux (B&W, IR-LED on)	0.12 Lux (Colour) 0 Lux (B&W, IR-LED on)	0.2 Lux (Colour) 0 Lux (B&W, IR-LED on)	0.5 Lux (Colour) 0 Lux (B&W, IR-LED on)
Angle of View (Horizontal/Vertical/Diagonal)	57.8° / 37.8° / 66°	58.28° / 33.42° / 66.47°	77.4° / 45.1° / 88°	121.2°~38.1° / 62.1°~21.3° / 148.4°~43.8°	25.49°~85.02° / 17.09°~65.47°
Motorised Pan/Tilt					
Optical Zoom					
Privacy Masks	•	•	•	•	•
<b>DAY AND NIGHT</b>					
ICR Filter	•	•	•	•	•
Built-in IR	5 m	10 m	15 m	30 m	30 m
<b>AUDIO</b>					
Two-Way Audio	•	•		•	•
Built-in Microphone	•				
External Microphone Input		•		•	•
Built-in Speaker	•				
External Speaker Input		•		•	•
<b>CONNECTIVITY</b>					
Wired LAN	•	•	•	•	•
Wireless LAN					
802.3af PoE	•	•	•	•	•
Digital Input/Output		DI x 1, DO x 1	DI x 1, DO x 1	DI x 1, DO x 1	DI x 1, DO x 1
Video Out				BNC	BNC
Memory Card Slot	• (Micro-SD, up to 32 GB)	• (Micro-SD, up to 32 GB)		• (SD, up to 32 GB)	• (Micro-SD, up to 64 GB*)
<b>SOFTWARE FEATURES</b>					
Video Format	H.264, MJPEG, MPEG-4	H.264, MJPEG, MPEG-4	H.264, MJPEG, MPEG-4	H.264, MJPEG, MPEG-4	H.264, MJPEG
Digital Zoom	10 x	10 x	4 x	10 x	4 x
Electronic Pan/Tilt (ePTZ)	•				
HTTP Secure (HTTPS)	•	•	•	•	•
Sound Detection					
Motion Detection	•	•	•	•	•
E-Mail Notification	•	•	•	•	•
Samba Recording to NAS	•	•	•	•	•
UPnP Installation	•	•	•	•	•
DDNS Support	•	•	•	•	•
mydlink™-enabled	•	•	•	•	•
D-ViewCam™ Compatible	•	•	•	•	•
<b>PHYSICAL AND ENVIRONMENT</b>					
IP Rating	IP65	IP67	IP66	IP68	IP66
Dimensions	138.9 x 93 x 66 mm	176.5 x 80.5 x 65 mm	68 x 42 x 51 mm	316.5 x 249.1 x 100 mm	290.34 x 110 x 83 mm
Weight	235 g	410 g	808 g	2.05 Kg (with Bracket and Sunshield)	1.25 Kg (camera only)
Maximum Power Consumption	5.3 W	6.96 W	6.3 W	11.02 W	12.48 W
Operating Temperature	-25°C to 50°C	-25°C to 50°C	-20°C to 50°C	-40°C to 50°C	-40°C to 50°C
Operating Humidity	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing	0% to 90% RH Non-Condensing	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing

\* Compatible with micro-SD SD/SDHC/SDXC cards up to v3.01. Not compatible with v4.x cards.



# Fixed Network Cameras (Wireless – Outdoor)

## DCS-2330L

### Outdoor HD Wireless Day/Night Cloud Camera



- 1/4" 1 megapixel progressive scan CMOS sensor
- HD 720p resolution
- Up to 5 m night vision with integrated IR illuminator
- Built-in microphone
- Supports MJPEG and H.264 video formats
- Recording to local microSD card slot (up to 32 GB) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots and video
- Integrated PIR sensor for enhanced motion detection
- IP65 weatherproof housing



<b>MODEL</b>	DCS-2330L
<b>IMAGE SENSOR</b>	
Type	1/4" 1 Megapixel Progressive Scan CMOS
Megapixel	•
Wide Dynamic Range (WDR)	
Maximum Video Resolution (Pixels)	1280 x 720
<b>LENS</b>	
Type	Fixed
Focal Length	3.45 mm
F-Number	F2.0
Minimum Illumination (Lux)	1 Lux (colour), 0.5 Lux (B&W), 0 Lux (B&W, IR-Led on)
Angle of View (Horizontal/Vertical)	57.8° / 37.8° / 66°
Motorised Pan/Tilt	
Optical Zoom	
Privacy Masks	•
<b>DAY AND NIGHT</b>	
ICR Filter	•
Built-in PIR	•
Built-in IR	5m
<b>AUDIO</b>	
Two-Way Audio	
Built-in Microphone	•
External Microphone Input	
Built-in Speaker	
<b>CONNECTIVITY</b>	
Wired LAN	•
Wireless LAN	802.11b/g/n
802.3af PoE	
Digital Input/Output	
Video Out	
Memory Card Slot	• (Micro-SD, up to 32 GB)
<b>SOFTWARE FEATURES</b>	
Video Format	H.264, MJPEG
Digital Zoom	10 x
Electronic Pan/Tilt (ePTZ)	•
HTTP Secure (HTTPS)	•
Sound Detection	
Motion Detection	•
E-Mail Notification	•
Samba Recording to NAS	•
UPnP Installation	•
DDNS Support	•
mydlink™ -enabled	•
D-ViewCam™ Compatible	•
<b>PHYSICAL AND ENVIRONMENT</b>	
IP Rating	IP65
Dimensions	66 x 45.7 x 146.8 mm
Weight	134 g
Maximum Power Consumption	5 W
Operating Temperature	-25°C to 45°C
Operating Humidity	20% to 80% RH Non-Condensing

# Panoramic & Mini Dome Cloud Cameras (Indoor)

## DCS-6004L/6005L

### HD PoE/Wireless Day/Night Mini Dome Cloud Camera



- 1/4" 1 megapixel progressive scan CMOS sensor
- Fixed lens (2.8 mm, F1.8)
- HD 720p resolution
- Up to 5 m night vision with integrated IR illuminator
- 10 x digital zoom
- Two-way audio with built-in microphone and external speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot (up to 32 GB) or to a NAS device
- Motion/Sound detection, event recording and e-mail notification with snapshots
- Supports 802.3af PoE (DCS-6004L)
- Supports 802.11b/g/n (DCS-6005L)

## DCS-6010L

### 2-Megapixel Panoramic Wireless Cloud Camera



- 1/3.2" 2 megapixel progressive scan CMOS sensor
- Fixed fisheye lens (1.25 mm, F2.0)
- Ceiling-mount 360° surveillance with fisheye distortion correction
- 1600 x 1200 resolution
- 10 x digital zoom
- Two-way audio with built-in microphone and speaker
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot (up to 32 GB) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots



MODEL	DCS-6004L/6005L	DCS-6010L
<b>IMAGE SENSOR</b>		
Type	1/4" 1 Megapixel Progressive Scan CMOS	1/3.2" 2 Megapixel Progressive Scan CMOS
Megapixel	•	•
Wide Dynamic Range (WDR)		
Maximum Video Resolution (Pixels)	1280 x 800	1600 x 1200
<b>LENS</b>		
Type	Fixed	Fisheye
Focal Length	2.8 mm	1.25 mm
F-Number	F1.8	F2.0
Minimum Illumination (Lux)	0.5 Lux (Colour) 0 Lux (B&W, IR-LED on)	2 Lux (Colour)
Angle of View (Horizontal/Vertical/Diagonal)	75.2° / 48.2° / 89.3°	180° / 180° / 180°
Motorised Pan/Tilt		
Optical Zoom		
Privacy Masks	•	•
<b>DAY AND NIGHT</b>		
ICR Filter	•	
Built-in IR	5 m	
<b>AUDIO</b>		
Two-Way Audio	•	•
Built-in Microphone	•	•
External Microphone Input		
Built-in Speaker		•
External Speaker Output	•	
<b>CONNECTIVITY</b>		
Wired LAN	•	•
Wireless LAN	802.11b/g/n (DCS-6005L)	802.11b/g/n
802.3af PoE	• (DCS-6004L)	
Digital Input/Output		
Video Out		
Memory Card Slot	• (Micro-SD, up to 32 GB)	• (Micro-SD, up to 32 GB)
<b>SOFTWARE FEATURES</b>		
Video Format	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG
Digital Zoom	10X	10X
Electronic Pan/Tilt (ePTZ)	•	•
HTTP Secure (HTTPS)	•	•
Sound Detection	•	•
Motion Detection	•	•
E-Mail Notification	•	•
Samba Recording to NAS	•	•
UPnP Installation	•	•
DDNS Support	•	•
mydlink™ -enabled	•	•
D-ViewCam™ Compatible	•	•
<b>PHYSICAL AND ENVIRONMENT</b>		
Dimensions	90 x 50.5 mm (Ø x H)	134.2 x 49.8 mm (Ø x H)
Weight	130 g (DCS-6004L) 135 g (DCS-6005L)	267 g
Maximum Power Consumption	3.5 W (DCS-6004L) 2.8 W (DCS-6005L)	3.9 W
Operating Temperature	0°C to 40°C	0°C to 40°C
Operating Humidity	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing

# Fixed Dome Network Cameras (Wired)

D-Link's high-performance Fixed Dome Network Cameras provide the perfect video surveillance solution for a whole host of business environments. They are equipped with progressive CMOS technology to deliver exceptional picture quality, and all are PoE-enabled for simplified low-cost installation.

## DCS-6113/6113V Indoor Full HD PoE Day/Night Dome Network Camera



- 1/2.7" 2 megapixel progressive scan CMOS sensor
- Fixed lens (4 mm, F1.5)
- Full HD 1080p resolution
- 16 x digital zoom
- Two-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Tamper detection

## DCS-6210 Outdoor Full HD PoE Vandal-Resistant Mini Dome Network Camera



- 1/2.7" 2 megapixel progressive scan CMOS sensor
- Fixed lens (3.6 mm, F1.8)
- Full HD 1080p resolution
- 10 x digital zoom
- Built-in microphone
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot (up to 32 GB) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- IP68 weatherproof and IK10 vandal-proof housing

## DCS-6314 Outdoor Full HD PoE WDR Varifocal Day/Night Dome Network Camera



- 1/2.8" 2 megapixel WDR progressive scan CMOS sensor
- Varifocal lens (2.8~12 mm, F1.4)
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme-contrast environments
- Full HD 1080p resolution
- Up to 15 m night vision with integrated IR illuminator
- 10 x digital zoom
- Two-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local microSD card slot (up to 32 GB) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- IP68 weatherproof and IK10 vandal-proof housing

## DCS-6511 Outdoor HD PoE Vandal-Resistant WDR Day/Night Dome Network Camera



- 1/3" 1.3 megapixel WDR progressive scan CMOS sensor
- Motorised varifocal lens (3.3~12 mm, F1.4~360)
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme-contrast environments
- HD 720p resolution
- Up to 20 m night vision with integrated IR illuminator
- 10 x digital zoom
- Two-way audio with external microphone input and speaker output
- Supports MJPEG, MPEG-4 and H.264 video formats
- Recording to local SD card slot or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- IP66 weatherproof and IK10 vandal-proof housing

## DCS-6517 Outdoor 5 Megapixel PoE WDR Day/Night Dome Network Camera



- 1/3.2" 5 megapixel WDR progressive scan CMOS sensor
- DC iris varifocal lens (3~10.5 mm, F1.4)
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme-contrast environments
- Full HD 1080p resolution
- Up to 20 m night vision with integrated IR illuminator
- 4 x digital zoom
- Two-way audio with external microphone input and speaker output
- Supports MJPEG and H.264 video formats
- Recording to local microSD card slot (up to 64GB\*) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- IP66 weatherproof and IK10 vandal-proof housing



MODEL	DCS-6113/6113V	DCS-6210	DCS-6314	DCS-6511	DCS-6517
<b>IMAGE SENSOR</b>					
Type	1/2.7" 2 Megapixel Progressive Scan CMOS	1/2.7" 2 Megapixel Progressive Scan CMOS	1/2.8" 2 Megapixel WDR Progressive Scan CMOS	1/3" 1.3 Megapixel WDR Progressive Scan CMOS	1/3.2" 5 Megapixel WDR Progressive Scan CMOS
Megapixel	•	•	•	•	•
Wide Dynamic Range (WDR)			•	•	•
LowLight+					
Maximum Video Resolution (Pixels)	1920 x 1080	1920 x 1080	1920 x 1080	1280 x 1024	1920 x 1080
<b>LENS</b>					
Type	Fixed	Fixed	Varifocal	Motorised Varifocal	DC Iris Varifocal
Focal Length	4.0 mm	3.6 mm	2.8~12 mm	3.3~12 mm	3~10.5 mm
F-Number	F1.5	F1.8	F1.4	F1.4~360	F1.4
Minimum Illumination (Lux)	0.12 Lux (Colour) 0 Lux (B&W, IR-LED on)	1 Lux (Colour)	0.2 Lux (Colour) 0 Lux (B&W, IR-LED on)	0.2 Lux (Colour) 0 Lux (B&W, IR-LED on)	0.5 Lux (Colour) 0 Lux (B&W, IR-LED on)
Angle of View (Horizontal/Vertical/Diagonal)	77.4° / 45.1° (DCS-6113V) 77.32° / 48.46° / 85.1° (DCS-6113 B1)	88° / 50.4° / 101°	96.5°~31.2° / 64.5°~17.8° / 117.5°~36.8°	23.9°~89.8° / 63.6°~17.9° / 125.7°~29.9°	25.48°~85.03° / 19.09°~65.47°
Optical Zoom					
Privacy Masks	•	•	•	•	•
<b>DAY AND NIGHT</b>					
ICR Filter	•		•	•	•
Built-in IR	10 m (DCS-6113V) 15 m (DCS-6113 B1)		15 m	20 m	20 m
<b>AUDIO</b>					
Two-Way Audio	•		•	•	•
Built-in Microphone		•			
External Microphone Input	•		•	•	•
Built-in Speaker					
External Speaker Output	•		•	•	•
<b>CONNECTIVITY</b>					
Wired LAN	•	•	•	•	•
Wireless LAN					
802.3af PoE	•	•	•	•	•
Digital Input/Output	DI x 1, DO x 1		DI x 1, DO x 1	DI x 1, DO x 1	DI x 1, DO x 1
Video Out	BNC (DCS-6113 B1)				BNC
Memory Card Slot	• (Micro-SD, up to 32 GB, DCS-6113V) • (Micro-SD, up to 128 GB*, DCS-6113 B1)	• (Micro-SD, up to 32 GB)	• (Micro-SD, up to 32 GB)	• (SD, up to 32 GB)	• (Micro-SD, up to 64 GB*)
<b>SOFTWARE FEATURES</b>					
Video Format	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MJPEG
Digital Zoom	16 x	10 x	10 x	10 x	4 x
Electronic Pan/Tilt (ePTZ)	•	•	•	•	•
HTTP Secure (HTTPS)	•	•	•	•	•
Sound Detection					
Motion Detection	•	•	•	•	•
E-Mail Notification	•	•	•	•	•
Samba Recording to NAS	•	•	•	•	•
UPnP Installation	•	•	•	•	•
DDNS Support	•	•	•	•	•
mydlink™ -enabled					
D-ViewCam™ Compatible	•	•	•	•	•
<b>PHYSICAL AND ENVIRONMENT</b>					
IP Rating		IP68	IP68	IP66	IP66
Vandal Proof	IK10 (DCS-6113V)	IK10	IK10	IK10	IK10
Dimensions	130 x 99.5 mm (Ø x H) (DCS-6113V) 130 x 97.8 mm (Ø x H) (DCS-6113 B1)	115.52 x 106.75 x 51.59 mm	123.2 x 113.7 x 128 mm	127 x 151.79 x 191.8 mm	106 x 57 x 137 mm
Weight	578 g (DCS-6113V) 472 g (DCS-6113 B1)	412.2 g	1.112 Kg	1.030 Kg	1.25 Kg
Maximum Power Consumption	5.3 W	8.6 W	10.5 W	9 W	11.6 W
Operating Temperature	0°C to 40°C	-25°C to 50°C	-30°C to 50°C	-40°C to 50°C	-40°C to 50°C
Operating Humidity	Up to 90% RH Non-Condensing (DCS-6113V) Up to 85% RH Non-Condensing (DCS-6113 B1)	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing	20% to 90% RH Non-Condensing
<b>ACCESSORIES</b>					
Mounting Options			DCS-34-2 DCS-34-3	DCS-34-2 DCS-34-3	DCS-34-2 DCS-34-3

\* Compatible with micro-SD SD/SDHC/SDXC cards up to v3.01. Not compatible with v4.x cards.

# Pan, Tilt, Zoom (PTZ) Network Cameras (Indoor / Outdoor)

These indoor PTZ and outdoor high-speed dome cameras feature 340° to 360° panning for all-round super-wide-range surveillance. These cameras can be automated with preset focal points and an 'auto patrol cruise' to provide a continual scan inside or outside a building.

## DCS-5000L (Indoor) Wireless Day/Night Pan/Tilt Cloud Camera



- 1/5" VGA progressive scan CMOS sensor
- Fixed lens (2.3 mm, F2.0)
- Motorised pan/tilt with +170° to -170° pan range and +95° to -25° tilt range
- 640 x 480 resolution
- Up to 5 m night vision with integrated IR illuminator
- 4 x digital zoom
- Built-in microphone
- Supports MJPEG video format
- Motion detection, event recording and e-mail notification with snapshots and video

## DCS-5020L (Indoor) Wireless Day/Night Pan/Tilt Cloud Camera



- 1/5" VGA progressive scan CMOS sensor
- Fixed lens (2.2 mm, F2.0)
- Motorised pan/tilt with +170° to -170° pan range and +95° to -25° tilt range
- 640 x 480 resolution
- Up to 8 m night vision with integrated IR illuminator
- 4 x digital zoom
- Built-in microphone
- Built-in wireless extender (recommended up to 2 wireless clients)
- Supports MJPEG and H.264 video formats
- Motion and sound detection, event recording and e-mail notification with snapshots and video

## DCS-5030L (Indoor) HD Wireless Day/Night Pan/Tilt Cloud Camera



- 1/4" 1 megapixel progressive scan CMOS sensor
- Fixed lens (2.2 mm, F2.4)
- Motorised pan/tilt with +170° to -170° pan range and +90° to -20° tilt range
- HD 720p resolution
- Up to 5 m night vision with integrated IR illuminator
- 4 x digital zoom
- Built-in microphone
- Supports H.264 and MJPEG video formats
- Motion detection, event recording and e-mail notification with snapshots and video

## DCS-5222L (Indoor) HD Wireless Day/Night Pan/Tilt Cloud Camera



- 1/4" 1 megapixel progressive scan CMOS sensor
- Fixed lens (2.4 mm, F2.0)
- Motorised pan/tilt with +170° to -170° pan range and +100° to -20° tilt range
- HD 720p resolution
- Up to 8 m night vision with integrated IR illuminator
- 10 x digital zoom
- Two-way audio with built-in microphone and speaker, 1 audio input/output port
- Supports MJPEG and H.264 video formats
- Recording to local microSD card slot (up to 32 GB) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- Integrated PIR sensor for enhanced motion detection

## DCS-6915 (Outdoor) 20X Full HD WDR High Speed Dome Network Camera



- Sony Exmor 1/2.8" 3 megapixel progressive scan CMOS sensor
- Motorised varifocal lens (4.7~94 mm, F1.6~3.5)
- Motorised pan/tilt with fast 5°~400°/Sec preset speed, 360° endless pan, +190° to -10° tilt range
- Proportional pan/tilt; when camera zooms the tracking speed slows for more accurate control
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme-contrast environments
- Full HD 1080p resolution
- Infrared-cut removable (ICR) filter for recording in low-light conditions
- Two-way audio with external microphone input and speaker output
- Supports MJPEG and H.264 video formats
- Recording to local microSD card slot (up to 32 GB) or to a NAS device
- Motion detection, event recording and e-mail notification with snapshots
- IP66 weatherproof and IK10 vandal-proof housing





MODEL	DCS-5000L	DCS-5020L	DCS-5030L	DCS-5222L	DCS-6915
<b>IMAGE SENSOR</b>					
Type	1/5"VGA Progressive Scan CMOS	1/5"VGA Progressive Scan CMOS	1/4" 1 Megapixel Progressive Scan CMOS	1/4" 1 Megapixel Progressive Scan CMOS	1/2.8" Sony Exmor 3 Megapixel CMOS
Megapixel				•	•
Wide Dynamic Range (WDR)					•
Maximum Video Resolution	640 x 480	640 x 480	1280 x 720	1280 x 720	1920 x 1080
<b>LENS</b>					
Type	Fixed	Fixed	Fixed	Fixed	Motorised Varifocal
Focal Length	2.3 mm	2.2 mm	2.38 mm	2.4 mm	4.7~94 mm
F-Number	F 2.0	F 2.0	F 2.2	F 2.0	F1.6~3.5
Minimum Illumination (Lux)	1 Lux (Colour) 0.5 Lux (B&W, IR-LED on)	1 Lux (Colour) 0 Lux (B&W, IR-LED on)	1 Lux (Colour) 0 Lux (B&W, IR-LED on)	1 Lux (Colour) 0 Lux (B&W, IR-LED on)	0.05 Lux (Colour) 0.01 Lux (B/W)
Angle of View (Horizontal/Vertical/Diagonal)	81.26° / 65.66° / 94.27°	66.22° / 49.08° / 77.04°	94.36° / 59.3° / 110.44°	98° / 52° / 115°	62.2°~4.54° / 52.8°~4° / 32.2°~2.15° /
Motorised Pan/Tilt	• Pan Range: -170° to 170° Tilt Range: -25° to 95°	• Pan Range: +170° to -170° Tilt Range: +95° to -25°	• Pan Range: +170° to -170° Tilt Range: +90° to -20°	• Pan Range: +170° to -170° Tilt Range: +100° to -20°	• Pan Range: 360° endless Tilt Range: +190° to -10°
Optical Zoom					20 x
Privacy Masks					•
<b>DAY AND NIGHT</b>					
ICR Filter	•	•	•	•	•
Built-in IR	5 m	8 m	5 m	8 m	
<b>AUDIO</b>					
2-Way Audio				•	•
Built-in Microphone	•	•	•	•	
External Microphone Input					•
Built-in Speaker				•	
External Speaker Output					•
<b>CONNECTIVITY</b>					
Wired LAN	•	•	•	•	•
Wireless LAN	802.11b/g/n	802.11b/g/n	802.11b/g/n	802.11b/g/n	
Built-in Wi-Fi Extender		•			
802.3af PoE					802.3at midspan PoE
Digital Input/Output				DI x 1, DO x 1	DI x 4, DO x 2
Video Out					
Memory Card Slot			• (Micro-SD, up to 128 GB*)	• (Micro-SD, up to 32 GB)	• (Micro-SD, up to 32 GB)
<b>SOFTWARE FEATURES</b>					
Video Format	MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Digital Zoom	4 x	4 x	4 x	10 x	10 x
Electronic Pan/Tilt (ePTZ)					
HTTP Secure (HTTPS)				•	
Motion Detection	•	•	•	•	•
Sound Detection	•	•	•	•	
E-Mail Notification	•	•	•	•	•
Samba Recording to NAS				•	
UPnP Installation	•	•	•	•	•
DDNS Support	•	•	•	•	•
mydlink™-enabled	•	•	•	•	•
D-ViewCam™ Compatible	•	•	•	•	•
<b>PHYSICAL AND ENVIRONMENT</b>					
IP Rating					IP66
Vandal Proof					IK10
Dimensions	116.4 x 109.1 x 133.6 mm	102.35 x 101.27 x 133.6 mm	116.4 x 109.1 x 133.6 mm	120 x 103.2 x 130 mm	191.97 x 282.11 mm (Ø x H)
Weight	292.8g	292.4g	292.4g	340g	2.3 Kg (with sunshield)
Maximum Power Consumption	4.8 W	8.64 W	5.56 W	10 W	59.5 W (with Heater on)
Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	-40°C to 50°C
Operating Humidity	20% to 85% RH Non-Condensing	20% to 80% RH Non-Condensing	20% to 85% RH Non-Condensing	20% to 80% RH Non-Condensing	20% to 80% RH Non-Condensing
<b>ACCESSORIES</b>					
Mounting Options					DCS-32-1, DCS-32-2, DCS-32-3, DCS-32-4
Other					DCS-80-5 (Power Box, 100-150V AC) DCS-80-6 (Power Box, 220-230V AC)

\* Compatible with micro-SD SDHC/SDXC cards up to v3.01. Not compatible with v4.x cards.



# VIGILANCE Camera Range (Indoor / Outdoor / Vandal-Proof)

The Vigilance Camera Range offers professional, full featured high definition video surveillance that is easy to install and highly affordable. The range consist of cameras designed specifically to meet different surveillance and environmental requirements. From standalone surveillance solutions that allow you to record video without additional software or equipment, to weather/vandal-proof cameras for harsh environments.

## DCS-4201 (Indoor) HD WDR Wireless Camera



- 1/4" 1-Megapixel progressive scan CMOS
- Fixed lens (1.8 mm, F2.4)
- HD 720p resolution
- Up to 10m night vision
- 10x digital zoom
- Enhanced PIR motion detection
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme-contrast environments
- 3D noise reduction
- Built-in microphone and speaker
- Micro-SD card slot for video recording
- Wireless and wired connectivity

## DCS-4602EV (Outdoor) Full HD Outdoor WDR Vandal-Proof PoE Dome Camera



- 1/3" 2-Megapixel progressive scan CMOS
- Fixed lens (2.8mm, F2.0)
- Full HD 1080P resolution
- Up to 20m night vision
- 10x digital zoom
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme-contrast environments
- 3D noise reduction
- IP66 weatherproof and IK10 vandal-proof housing
- Power-over-Ethernet simplifies installation as well as deployment cost.

## DCS-4701E (Outdoor) Vigilance HD Outdoor PoE Mini Bullet Camera



- 1/3" 1.3-Megapixel progressive scan CMOS
- Fixed lens (2.8mm, F2.0)
- HD 720P resolution
- Up to 30m night vision
- 10x digital zoom
- Wide Dynamic Range (WDR) technology for exceptional picture quality in extreme-contrast environments
- LowLight+ high sensitivity camera sensor allows the camera to see details in colour, even in very low light
- 3D noise reduction
- IP66 weatherproof housing
- Power-over-Ethernet simplifies installation as well as deployment cost.



MODEL	DCS-4201	DCS-4602EV	DCS-4701E
<b>IMAGE SENSOR</b>			
Type	1/4" 1-Megapixel progressive scan CMOS	1/3" 2-Megapixel progressive scan CMOS	1/3" 1.3-Megapixel progressive scan CMOS
Megapixel	•	•	•
Wide Dynamic Range (WDR)	•	•	•
3D Noise Reduction	•	•	•
LowLight+			•
Maximum Video Resolution	1280 x 720	1920 x 1080	1280 x 720
<b>LENS</b>			
Type	Fixed	Fixed	Fixed
Focal Length	1.8 mm	2.8 mm	2.8 mm
F-Number	F 2.4	F2.0	F2.0
Minimum Illumination (Lux)	1 lux (colour) 0 Lux (B&W, IR-LED on)	1 lux (colour) 0 Lux (B&W, IR-LED on)	0.2 lux (colour) 0 Lux (B&W, IR-LED on)
Angle of View (Horizontal/Vertical/Diagonal)	97.6° / 69.2° / 108.9°	96° / 54° / 108°	96° / 54° / 108°
Privacy Masks	•	•	•
<b>DAY AND NIGHT</b>			
ICR Filter	•	•	•
Built-in IR	10 m	20 m	30 m
<b>AUDIO</b>			
2-Way Audio	•		
Built-in Microphone	•		
Built-in Speaker	•		
<b>CONNECTIVITY</b>			
Wired LAN	•	•	•
Wireless LAN	802.11b/g/n		
802.3af PoE		•	•
Digital Input/Output	DI x 1, DO x 1		
Memory Card Slot	• (Micro-SD, up to 32 GB)		
<b>SOFTWARE FEATURES</b>			
Video Format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Digital Zoom	10 x	10 x	10 x
Electronic Pan/Tilt (ePTZ)	•		
Motion Detection	•	•	•
E-Mail Notification	•	•	•
Samba Recording to NAS	•	•	•
DDNS Support	•	•	•
D-ViewCam™ Compatible	•	•	•
<b>PHYSICAL AND ENVIRONMENT</b>			
IP Rating		IP66	IP66
Vandal Proof		IK10	
Dimensions	95 x 58 x 30.7mm	Φ110 x 78.7mm	Φ65 x 164.7mm
Weight	445 g	525 g	445 g
Max Power Consumption	4 W	5.5 W	4.7 W
Operating Temperature	0 ~ 40°C	-30 ~ 50°C	-30 ~ 50°C
Operating Humidity	20 ~ 80% RH (non-condensing)	20 ~ 80% RH (non-condensing)	20 ~ 80% RH (non-condensing)

# Video Management Software (VMS)

## DCS-100 D-ViewCam™

D-ViewCam Video Management Software comes bundled with D-Link's network cameras and provides video recording, live view and playback management for up to 32 network cameras and video servers.

A comprehensive surveillance system designed to centrally manage multiple IP cameras for Home, Small Office Home Office (SOHO), or Small and Medium Business (SMB) users, it is compatible with all current D-Link IP cameras and video servers. It offers digital monitoring and recording capabilities of video, audio and events for various security applications, and the software provides users with a wide array of features including an 'e-map mode' which allows users to arrange a map with camera locations and orientation. Additional features such as auto-patrol, rotate, zoom, and focus provide users with optimal control over their video surveillance.

## DCS-210/220/230

### D-ViewCam™ Standard/Professional/Enterprise

The DCS-210/220/230 D-ViewCam Standard/Professional/Enterprise is a comprehensive network camera surveillance software designed for enterprise users. It centrally manages 8, 32 or 64 network cameras and is compatible with current D-Link network cameras and video servers. This software offers digital monitoring and recording of video, audio, and events for use in various security applications. Furthermore, this easy-to-use surveillance software provides users with a wide array of features, including video recording, playback and live view.



Video Display



Video Playback

## DCS-250

### D-ViewCam™ Plus

For larger organisations with more cameras in their network, there is D-ViewCam™ Plus (DCS-250), a comprehensive network camera surveillance software system designed for medium-to-large business as well as enterprise users. It centrally manages up to 64 network cameras and is compatible with current D-Link network cameras, video servers and an extensive range of third-party network cameras from more than 40 other companies. This software offers digital monitoring and recording of video, audio, and events for use in various security applications. Furthermore, this easy-to-use surveillance software provides users with a wide array of features, including multiple-channel playback, high-resolution monitoring and live view.

### DCS-250-PRE-001-LIC

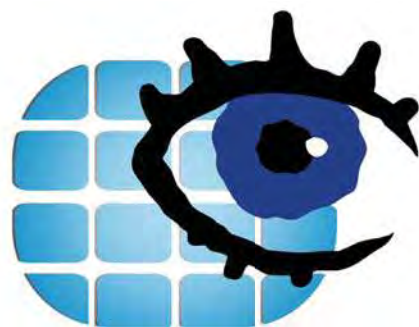
#### IVS Presence License

This license enables video analytics functions to detect when an object is inside or is crossing a zone or a line.

### DCS-250-COU-001-LIC

#### IVS Counting License

This license enables video analytics functions such as people and vehicle counting.



# D-ViewCam



D-ViewCam  
Standard



D-ViewCam  
Professional



D-ViewCam  
Enterprise

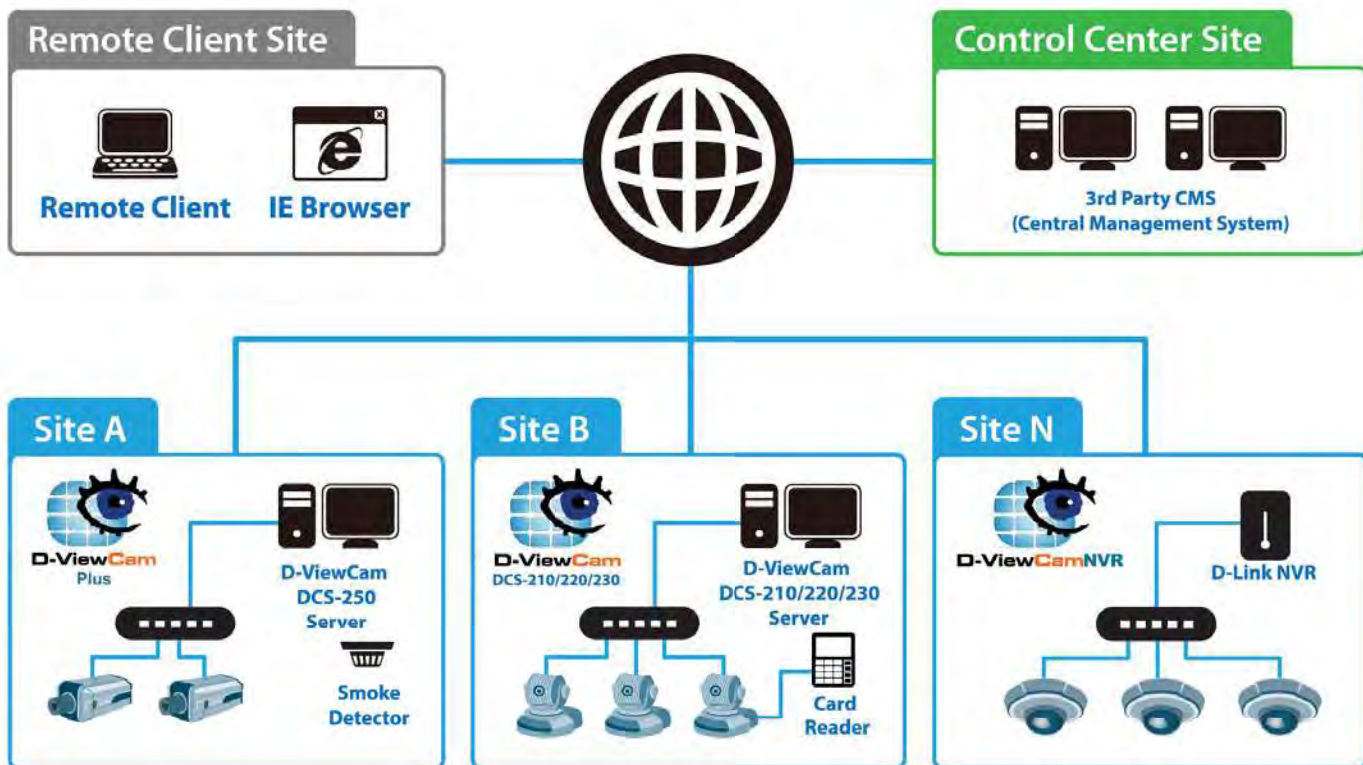


D-ViewCam



D-ViewCam  
Plus

## D-ViewCam Typical Network Set-up





# Network Video Recorders

D-Link's standalone, wired Network Video Recorders (NVRs) support network cameras with MJPEG, MPEG-4 or H.264 recording onto high-speed 3.5-inch SATA hard drives or external HDD via USB for long-term recording and video playback. These NVRs support recording, real-time monitoring and playback via a web browser from cameras located in local or remote sites, without the need of turning on a computer 24/7.

## DNR-312L

### mydlink™ 1-Bay Standalone Network Video Recorder



- Accessible from the Internet with mydlink™
- One bay for SATA hard drive (not included)
- HDMI display output
- 2 x USB ports for keyboard/mouse control, HDD with external power
- Monitor and record up to nine cameras simultaneously using MJPEG, MPEG-4 or H.264 video formats
- Supports all D-Link cameras

## DNR-322L

### mydlink™ 2-Bay Cloud Network Video Recorder



- Accessible from the Internet with mydlink™
- USB port for UPS status update
- Two bays for SATA hard drives (not included)
- Slot for Kensington security lock
- Nine-channel IP camera recording
- Single-channel playback
- RAID 0/1 and JBOD
- Configurable recording schedules
- Supports all D-Link cameras

## DNR-326

### 2-Bay Professional Network Video Recorder



- Two bays for SATA hard drives (not included) with optional RAID 1 protection
- USB port for UPS status update
- Support for all D-Link cameras as well as many third-party cameras (Axis, Acti, Panasonic, Sony, Mobotix, Cisco, etc)
- Monitor and record up to nine cameras simultaneously using MJPEG, MPEG-4 or H.264 video formats
- Four channels playback
- SmartSearch technology to simplify event investigation
- Digital watermark to prevent tampering on recorded files

## DNR-202L

### mydlink™ 2-USB Port Camera Video Recorder



- Accessible from the Internet with mydlink™
- Connects to 2 x USB external HDD for recording
- Monitor and record up to 4 cameras simultaneously using MJPEG, MPEG-4 or H.264 video formats
- Supports all D-Link IP cameras

### What does JBOD mean?

JBOD stands for 'Just a Bunch of Disks' – essentially a collection of independent hard drives – where each disk is accessible separately or as a combined (spanned) single logical volume rather than through a collective RAID interface. It offers no redundancy or performance advantages, so if the 'bunch' of disks is operating as a spanned volume and one drive fails, the whole lot fail.

### What is mydlink™?

mydlink™ is a cloud-based platform that maintains a live link between your mydlink™-enabled product via the Internet and your mydlink™ smartphone/tablet app, so that you can always be in control, wherever you are and whenever you want. Whether you want to access, control, monitor or store, there is a mydlink™ product, and supporting smartphone or tablet app, to help you. Just look for the mydlink™ logo...





MODEL		DNR-312L	DNR-322L	DNR-326	DNR-202L
General	Number of Channels	9	9	9	4
	Compression Format	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG	H.264/MPEG-4/MJPEG
	Maximum Recording Performance	H.264 at 720p at 270 fps or H.264 at 1080p at 135 fps	H.264 1080P (bitrate): 90 Mbps H.264 720P (bitrate): 90 Mbps MJPEG 1080P (frame rate): 90 fps MJPEG 720P (frame rate): 192 fps	H.264 1080P (bitrate): 90 Mbps H.264 720P (bitrate): 90 Mbps MJPEG 1080P (frame rate): 90 fps MJPEG 720P (frame rate): 192 fps	32 Mbps
Video Management – Live View	Video Output	HDMI			
	Display Mode	1, 4, 9 Split Screen	1, 4, 6, 9, 16, 25, 36, 64 Split Screen	1, 4, 6, 9, 16, 25, 36, 64 Split Screen	1, 4 Split Screen
	Auto Scan	•	•	•	•
	Digital PTZ Control	•	•	•	•
	Auto Pan/Patrol	•			
	One-/Two-Way Audio	Two-Way Audio	One-Way Audio	One-Way Audio	One-Way Audio
Video Management – Recording	Recording Type	Schedule/ Manual/ Event (Motion)	Schedule/ Manual/ Event (Motion)	Schedule/ Manual/ Event (DI/ Motion)	Schedule/ Manual/ Event ( Motion)
	Pre-Recording/ Post-Recording Period	Pre-Rec: 60 seconds Post-Rec: 300 seconds	Pre-Rec: 180 seconds Post-Rec: 180 seconds	Pre-Rec: 180 seconds Post-Rec: 180 seconds	Pre-Rec: 30 seconds Post-Rec: 180 seconds
	Audio Recording	•	•	•	•
	Auto Recycling (Disk Capacity)	•	•	•	•
Video Management – Playback	Simultaneously Playback Channels	9	1	4	4
	Playback Mode	Video Control (Play, Stop, Pause, Forward, Backward, Next, Previous)	Video Control (Play, Stop, Pause, Forward, Backward, Next, Previous)	Video Control (Play, Stop, Pause, Forward, Backward, Next, Previous)	Video Control (Play, Stop, Pause, Forward, Backward, Next, Previous)
	Digital Zoom Ratio	16 x	4 x	4 x	4 x
	Audio Control	•	•	•	•
	Video Search (Factor)	• (Time, Event, Camera)	• (Time, Event, Camera)	• (Time, Event, Camera)	• (Time, Event, Camera)
	Smart/ Intelligent Search (Factor)			• (Motion Detection, Missing/ Abandoned Object, Lost Focus/ Camera Occlusion)	
	Video Export File Format	AVI	AVI/ASF (Time Stamp)	AVI/ASF (Time Stamp)	AVI
	Image Export File Format	BMP/JPG	BMP/JPG	BMP/JPG	JPG
Event Management	Tamper-Proof (Digital Watermark)	•	•	•	•
	I/O Control			•	
	Event to Email	•	•	•	•
	Event to Alarm	•			
	Event by Signal Lost	•		•	•
Remote Access	Event by Disk Full	•	•	•	
	Client Viewer	Browser/mydlink™ View NVR APP	Browser/mydlink™ lite Mobile App	Browser/D-ViewCam Mobile APP	Browser/mydlink™ View NVR APP
	Remote View	•	•	•	•
E-Map	Concurrent Channels per Client (Max)	9	9	9	4
	E-Map Layers	3	1	1	
Compatibility	E-Map Image Format	BMP/ JPG	BMP/ JPG	BMP/ JPG	
	Supported Cameras	D-Link	D-Link	D-Link and Third Party	D-Link
	Auto Surveillance VLAN Support	•	•	•	
Hardware	Hard Disk Bays	1 x 3.5" SATA HDD, Max. 6TB	2 x 3.5" SATA HDD, Max. 12TB	2 x 3.5" SATA HDD, Max. 12TB	2 x External 2.5" USB HDD
	Hard Disk Configuration	Single	Single, RAID 0 / 1, JBOD	Single, RAID 0 / 1, JBOD	
	NAS (File Server)		Standard HDD Mode	Standard HDD Mode	
	Network Interface	1 x Gigabit Port	1 x Gigabit Port	1 x Gigabit Port	1 x Fast Ethernet Port
	Auto Boot-Up (Power Recovered)	•	•	•	
	Dimensions	49.8 x 141.6 x 173 mm	115 x 146.4 x 178.5 mm	115 x 146.4 x 178.5 mm	117.5 x 70 x 20.35 mm
	Weight	425 g	875 g	875 g	90 g
	Power Consumption	30 W	25.20 W	25.20 W	8.5 W
	Operation Temperature	0°C to 40°C	0°C to 55°C	0°C to 55°C	0°C to 40°C
	mydlink™ Functions	Live View, Playback, Disk/Camera Status			Live View, Playback, Disk/Camera Status

# Network Storage

Every business requires a reliable way of storing and backing up their data. D-Link provides a range of simple and cost-effective network storage products to meet any data management challenges. Products in this category include Network Attached Storage (NAS) devices such as the Cloud-enabled ShareCenter™ 2-Bay and 4-Bay Storage Network Enclosures and rack-mountable unified storage appliances for larger businesses or enterprise-class levels of storage. With the former you can share, download, delete or upload documents, files and media content such as photos, presentations and videos on a network or remotely over the Internet via the secure mylink™ portal or using the mylink™ Access-NAS app available for iPhone, iPad and Android devices, whilst the latter come with massive capacity capability and support for lightning-fast data throughput via Gigabit Ethernet connections.





# Range Overview

## Network Attached Storage (NAS)

4-BAY (UP TO 24 TB)	 DNS-340L	
2-BAY (UP TO 12 TB)	 DNS-320L	 DNS-327L

## Unified Storage Appliances

4-BAY (UP TO 24 TB)	 DNS-1560-04
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### What is Network Attached Storage?

Network Attached Storage, or NAS for short, is essentially one or more hard drives, usually stored within a dedicated enclosure, that acts as a repository for files that all users on the network can access (provided they have the required software permissions). NAS devices are particularly important in businesses where multiple users want to share the same information and have quick and easy access to it. D-Link's NAS devices DNS-320L/327L/340L come as standard with mydlink™, our multi-level cloud access platform.

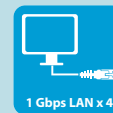
### What is mydlink™?

mydlink™ is a cloud-based platform that maintains a live link between your mydlink-enabled product via the Internet and your mydlink™ smartphone/tablet app, so that you can always be in control, wherever you are and whenever you want. Whether you want to access, control or monitor, there is a mydlink™ product, and supporting smartphone or tablet app, to help you. Just look for the mydlink™ logo...



## Key

In the following pages you're going to see these icons. Here's what they mean...



**Ethernet**  
Equipped with hard-wired Gigabit port(s). Look for number of ports at the bottom



**VMware-Ready**  
Complies with VMware Inc's standards for cloud and virtualisation software and services



**Windows Server 2008**  
Windows Server 2008  
Confirms that products are guaranteed to work with Windows Server 2008



**DLNA**  
dlina  
Conforms to the Digital Living Network Alliance's standards for network device interoperability



**Citrix-Ready**  
Complies with Citrix System Inc's standards for cloud and virtualisation software and services



**UPnP**  
Universal Plug and Play  
Devices will seamlessly discover each other's presence and establish functional services



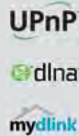
**mydlink™**  
mydlink™  
Uses D-Link's cloud to access saved content on the NAS

# Network Attached Storage (NAS)

D-Link's Network Attached Storage solutions are designed to provide simple, reliable network storage for businesses of all sizes. These NAS devices can be easily deployed to provide centralised file sharing and set to protect data on any network. What's more, with the mydlink™ Cloud, data stored on these devices can be accessed from any Internet-connected device, whether in the office or on the move.

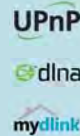


## DNS-320L ShareCenter™ 2-Bay Cloud Network Storage Enclosure



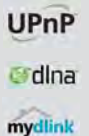
- Two 3.5" internal SATA hard drive bays with capacity for up to 12 TB of storage (6 TB per bay)<sup>1</sup>
- Disks can be RAID-configured for maximum capacity or maximum data security, depending on requirements
- USB 2.0 port for printer sharing, external backup disk or uninterruptible power supply (UPS) for monitoring
- Access your files from anywhere with mydlink™ cloud services
- Gigabit Ethernet for high-speed data transfer
- Multiple management options for control and notification
- Supports up to 256 users
- Media streaming including peer-to-peer download engine

## DNS-327L ShareCenter™+ 2-Bay Cloud Network Storage Enclosure



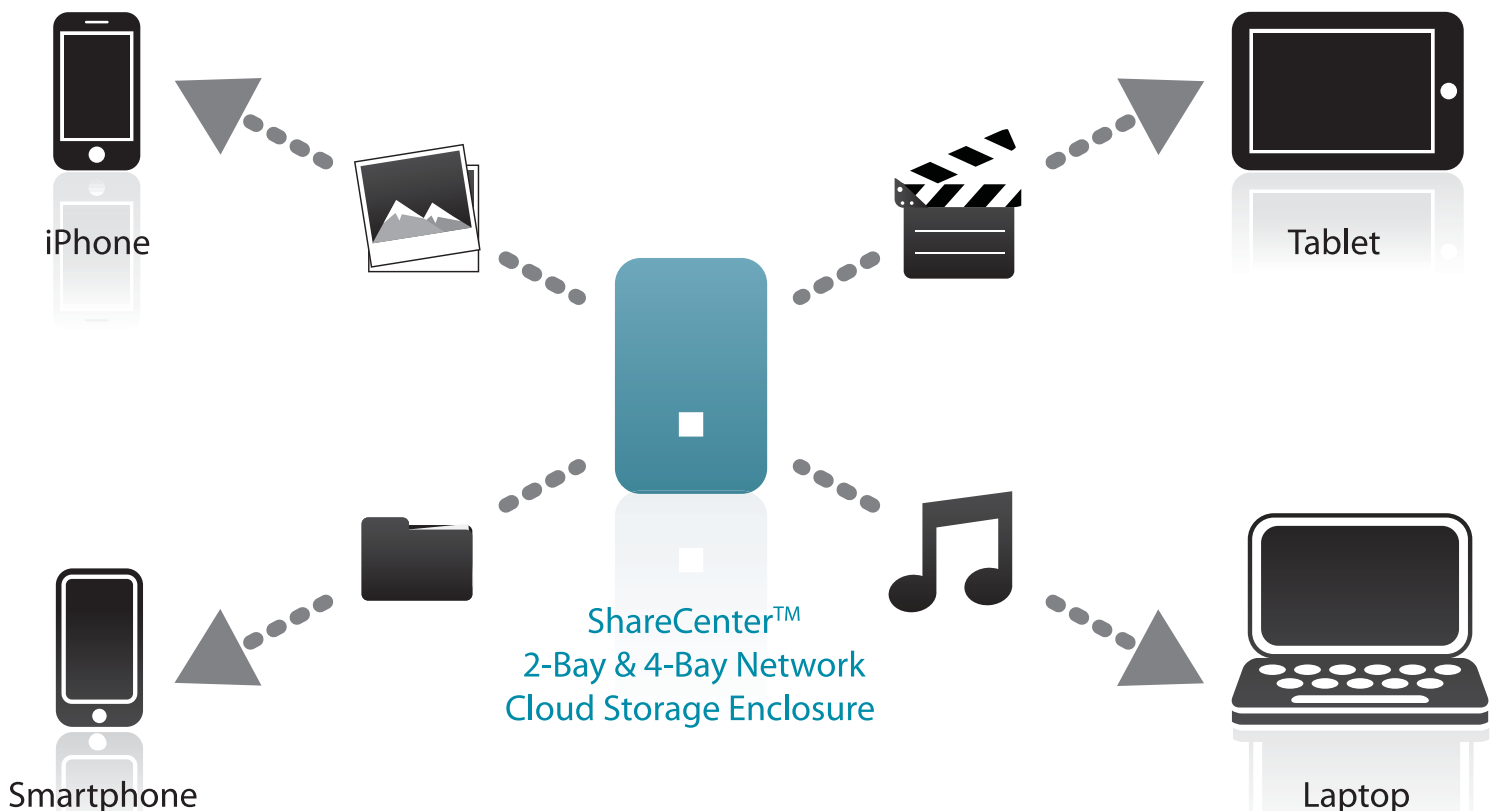
- Two 3.5" internal SATA hard drive bays with capacity for up to 12 TB of storage (6 TB per bay)<sup>1</sup>
- Disks can be RAID-configured for maximum capacity or maximum data security, depending on requirements
- Stream digital content to compatible DLNA media players
- USB 3.0 port for printer sharing, external backup disk or uninterruptible power supply (UPS) for monitoring
- Remotely access/manage data from anywhere using the mydlink™ mobile device app or on a computer through the mydlink™ portal

## DNS-340L ShareCenter™+ 4-Bay Cloud Network Storage Enclosure



- Four 3.5" internal SATA hard drive bays with capacity for up to 24 TB of storage (6 TB per bay)<sup>1</sup>
- Access files from anywhere on any computer or on iOS and Android smartphones and tablets with the free mydlink™ Access-NAS app
- Zero-configuration technology for easy set-up
- Multiple RAID types for a wide array of storage options
- Dual-Gigabit Ethernet for high-speed data transfer
- Multiple back-up options including Apple Time Machine
- Multiple USB 2.0 and 3.0 ports for sharing additional storage, adding a network printer or uninterruptible power supply (UPS) for monitoring

<sup>1</sup> Hard drives not included







MODEL		DNS-320L	DNS-327L	DNS-340L	
Storage Features	Number of Bays	2	2	4	
	Max Capacity <sup>1</sup>	12 TB	12 TB	24 TB	
	Supported Drive Type	3.5" Internal SATA I/II with Capacity of up to 6 TB per Bay			
Hardware and Performance	CPU Speed	1 GHz	1.2 GHz	1.2 GHz	
	SDRAM	256 MB	512 MB	512 MB	
Network	Interfaces	Ethernet	1 x Gigabit	1 x Gigabit	2 x Gigabit
		USB	1 x USB 2.0	1 x USB 3.0	1 x USB 3.0, 2 x USB 2.0
	802.3ad Link Aggregation			•	
	iSCSI Target			•	
	File System	CIFS, NFS, Web File Manager AFP, WebDAV	CIFS, NFS, Web File Manager AFP, WebDAV	CIFS, NFS, Web File Manager AFP, WebDAV	
	Active Directory			•	
	VLAN Support			•	
	Media Server	•	•	•	
	FTP Server	•	•	•	
	User/Group Quotas	256 / 32	256 / 32	256 / 32	
	Dynamic DNS	•	•	•	
	USB Drive Support	•	•	•	
	USB Print Server Support	•	•	•	
USB UPS Monitoring	•	•	•		
Volume and RAID	RAID Support	RAID 0/1 JBOD Standard	RAID 0/1 JBOD Standard	RAID 0, 1, 5, 10, 5+Hot Spare, JBOD, Standard	
	Hot-Swappable Drives	•	•	•	
	S.M.A.R.T.	•	•	•	
Applications and Third-Party Add-On Support	My Photos	•	•	•	
	My Files	•	•	•	
	My Music	•	•	•	
	My Surveillance/Surveillance Center	•	•	•	
	P2P Download	•	•	•	
	FTP/HTTP Download	•	•	•	
	Remote Backup	•	•	•	
	Local Backup	•	•	•	
	Amazon S3 Backup	•	•	•	
	D-Link Vault	•	•	•	
Add-On Package Support	•	•	•		
Storage Management	Web-Based GUI	HTTP, HTTPS	HTTP, HTTPS	HTTP, HTTPS	
	Easy Search Utility	•	•	•	
	Firmware Upgradable	•	•	•	
	Email Alerts	•	•	•	
Physical and Environment	Power Supply Type	External	External	External	
	Dimensions	90 x 144.3 x 193.3 mm	90 x 144.3 x 195.3 mm	185 x 146 x 217.4 mm	
	Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C	
	Operating Humidity	5% to 90% RH Non-Condensing	5% to 90% RH Non-Condensing	0% to 90% RH Non-Condensing	

<sup>1</sup>Maximum capacity may be increased with future firmware upgrades

## What does Link Aggregation mean?

Link aggregation combines (aggregates) multiple network connections in parallel in order to increase throughput beyond what a single connection could sustain, and provides redundancy should one of the links fail. Combining can occur such that multiple interfaces share one logical address (IP) or one physical address (MAC address), or it allows each interface to have its own address. A logical connection requires that both ends of a link use the same aggregation method, but has performance advantages over the physical connection method.

## What does iSCSI mean?

An implementation of the block-level SCSI (Small Computer System Interface) disk protocol for use on IP networks, iSCSI enables a Storage Area Network (SAN) to be implemented using ordinary Ethernet cabling and switches rather than more complex and expensive Fibre Channel hardware. An iSCSI target is a volume on a storage array. An iSCSI initiator is the hardware/software that connects an iSCSI target to a host server.

## What does RAID mean?

A Redundant Array of Independent Disks (RAID) (sometimes referred to as a Redundant Array of Inexpensive Disks) is where data is spread across multiple hard disks, optionally together with error correction data to enable the array to continue working in the event of one or, in some cases, two disk failures. RAID protection can be implemented in software or, for better performance, at hardware level using a RAID disk controller. Different levels of RAID are available, popular options being simple mirroring of disks, RAID 1, and RAID 5 where data and error correction information is striped across all the disks in the array.

# Unified Storage Appliances with NAS and iSCSI

Unified appliances offer all the benefits of NAS in terms of server-like network file sharing with management via an easy to use browser interface. In addition, however, they can also be used to provide block-level access to storage in the appliance using the iSCSI protocol.

## DNS-1560-04

### ShareCenter™ Pro 1560 Rack-Mount Unified Appliance



- 1U rack-mount format
- Hot-swappable 3.5" drive bays
- Dual-core processor plus 4 GB RAM
- Network file sharing on mixed Windows, Mac OS and Linux networks
- Virtual disks with thin provisioning
- Volume snapshots
- HTTPS, FTP, DDNS for simplified remote access
- iSCSI targets
- Two auto-sensing Gigabit Ethernet ports with link aggregation
- Two USB ports for printer, flash drive and external disk attachment plus UPS monitoring
- Integrated backup support including backup to the cloud
- Apple Time Machine Support



MODEL		DNS-1560-04		
Storage Features	Number of Bays	4		
	Maximum Capacity	24 TB		
	Drive Type			
Hardware and Performance	CPU Speed	Dual Core		
	SDRAM	4 GB		
Network	Interfaces	Ethernet	2 x Gigabit	
		USB	2 x USB 2.0	
	802.3ad Link Aggregation	•		
	iSCSI	•		
	File System	SMB, NFS, AFP, FTP, WebDAV		
	Active Directory	•		
	VLAN Support	•		
	Media Server	•		
	FTP Server	•		
	User/Group Quotas	4096 / 512		
	Dynamic DNS	•		
	USB Drive Support	•		
	USB Print Server Support	•		
	USB UPS Monitoring	•		
	Volume and RAID	RAID Controller	Single (Module)	
		RAID Support	0, 1, 5, 6, 10, JBOD, Standard	
Target Nodes		64		
Hot-Swappable Drives		•		
Free Space Defragmentation		•		
S.M.A.R.T.		•		
Thin Provisioning		•		
Compression		•		
De-Duplication		•		
Volume Snapshots		•		
Storage Management	Virtual Disks	•		
	ZFS file system	•		
	Web-Based GUI	HTTP, HTTPS		
	Easy Search Utility	•		
	Firmware Upgradable	•		
	Email Alerts	•		
Physical and Environment	SNMP	•		
	Integrated Anti-Virus	• (3-year McAfee license included)		
	Display	•		
	Power Supply Supply Type	Internal		
	Dimensions	533.4 x 442 x 44 mm		
Operating Temperature	0°C to 40°C			
Operating Humidity	0% to 90% RH Non-Condensing			

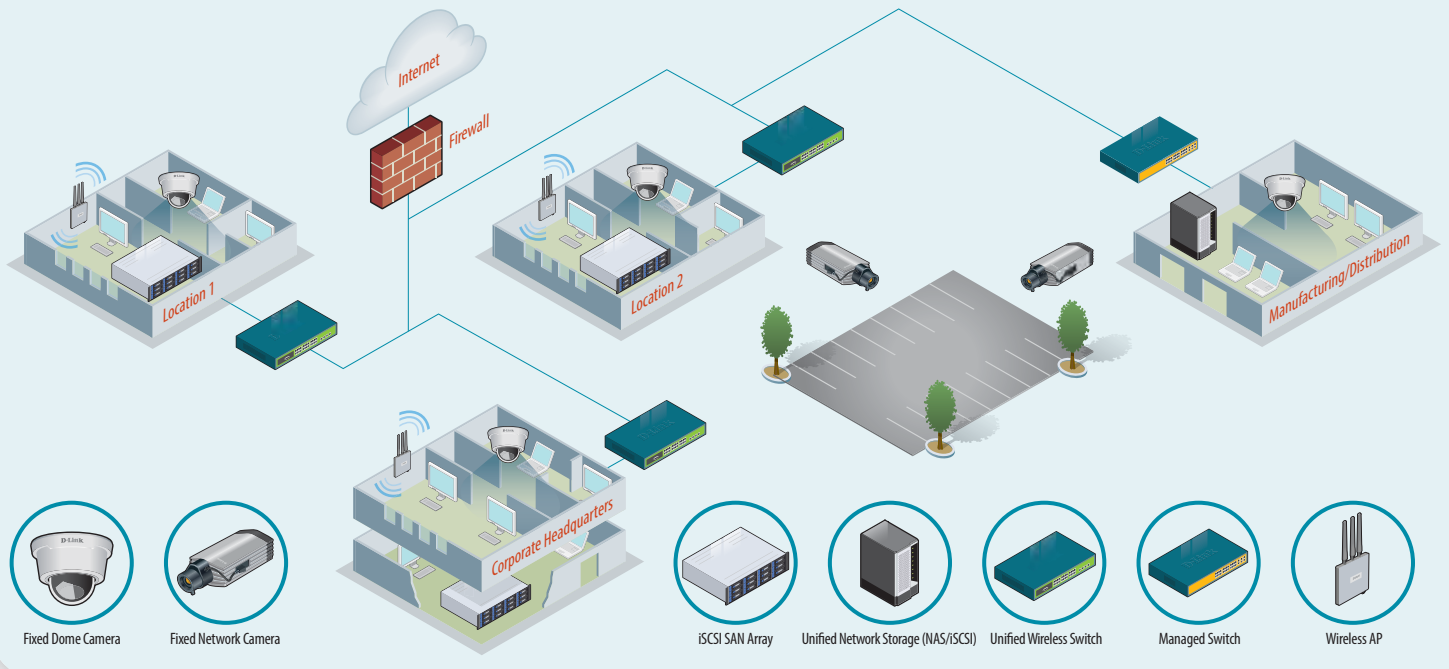
## What is Failover?

Failover is the automatic switching to a redundant or standby server, system, hardware component or network upon the failure or unexpected termination of the previously active server, system, hardware component or network. Failover and switchover are essentially the same thing, except that failover is automatic and usually operates without warning, while switchover requires human intervention.

# SMB Application Scenarios

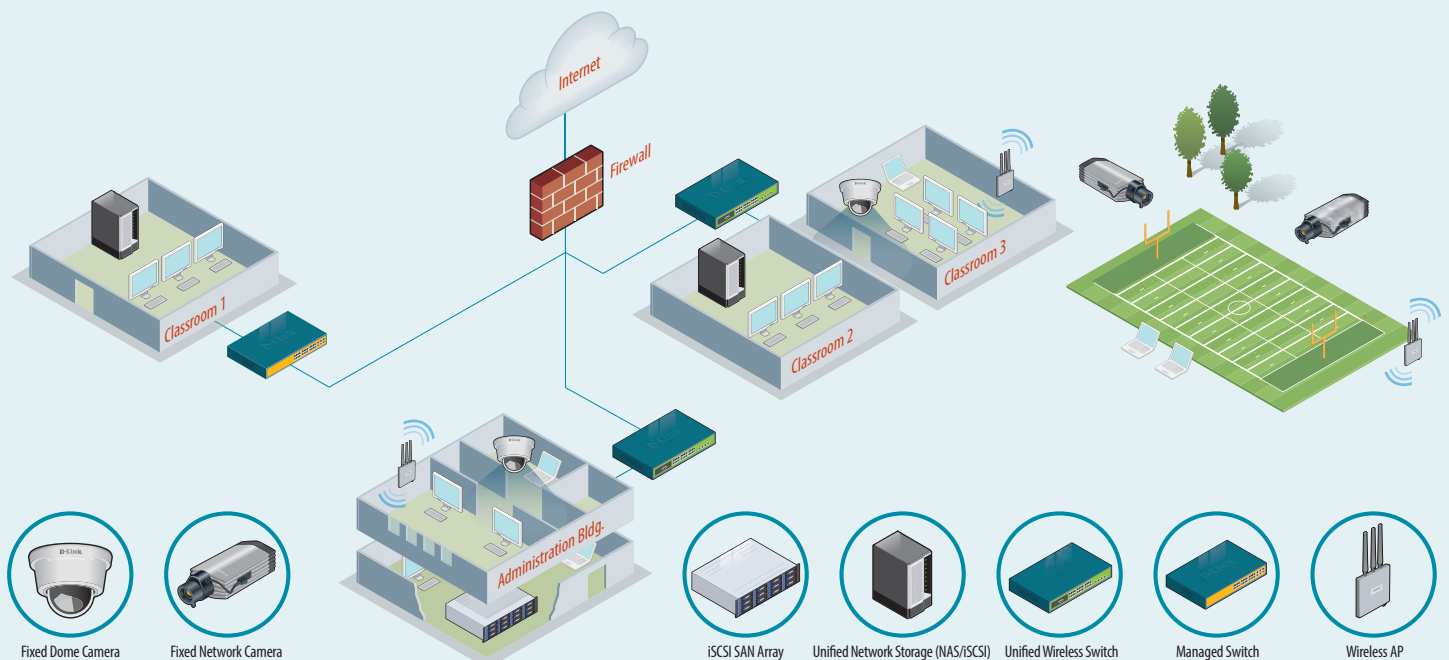
## Network Application Scenario for a Multi-Site Business

From enabling monitoring and surveillance, managing an end-to-end wireless network, to protecting and storing sensitive data, D-Link Network Solutions provide the basis for a secure and reliable business network.



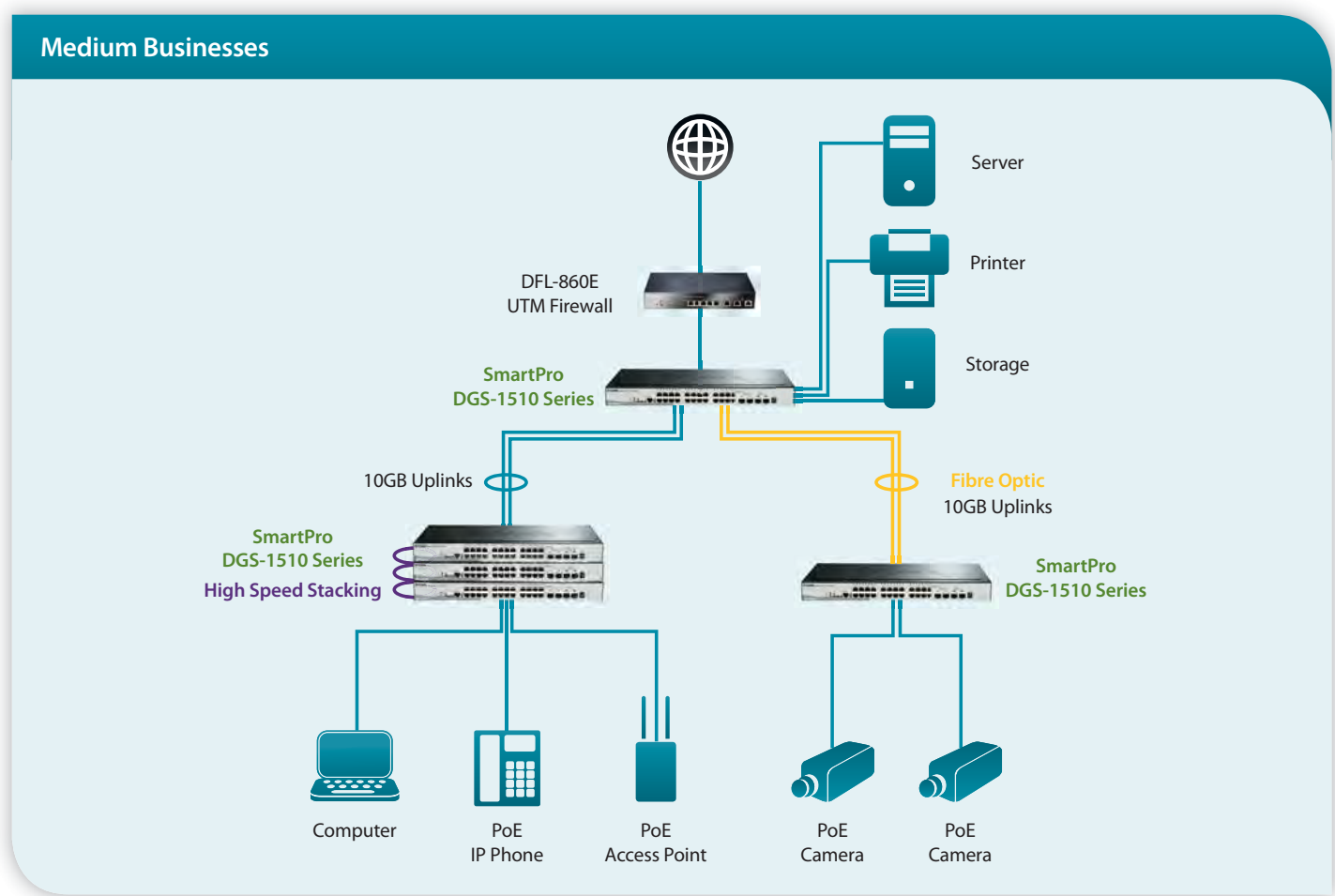
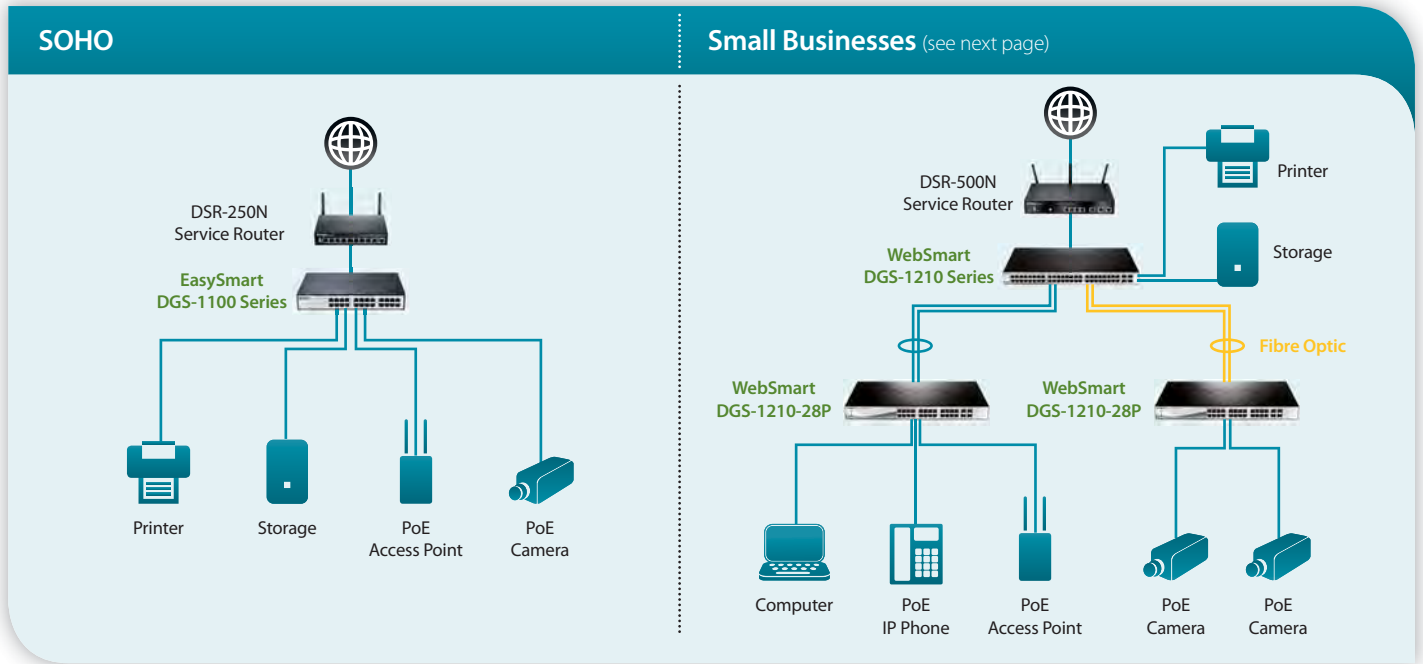
## Network Application Scenario for a School Campus

See how D-Link offers a complete line-up of unified networking solutions that allows schools to create a seamless, reliable network for today, and into the future.

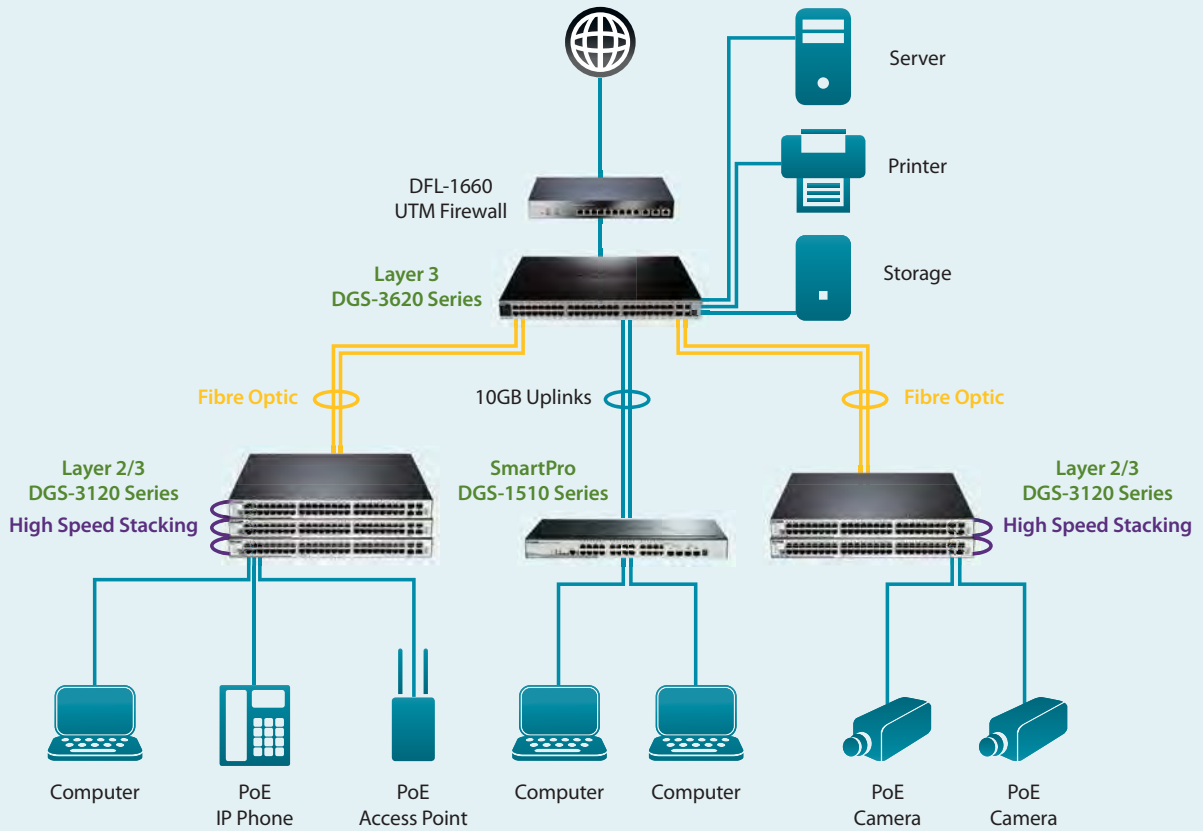


# Network Application Scenarios - From SOHO to Enterprises Level

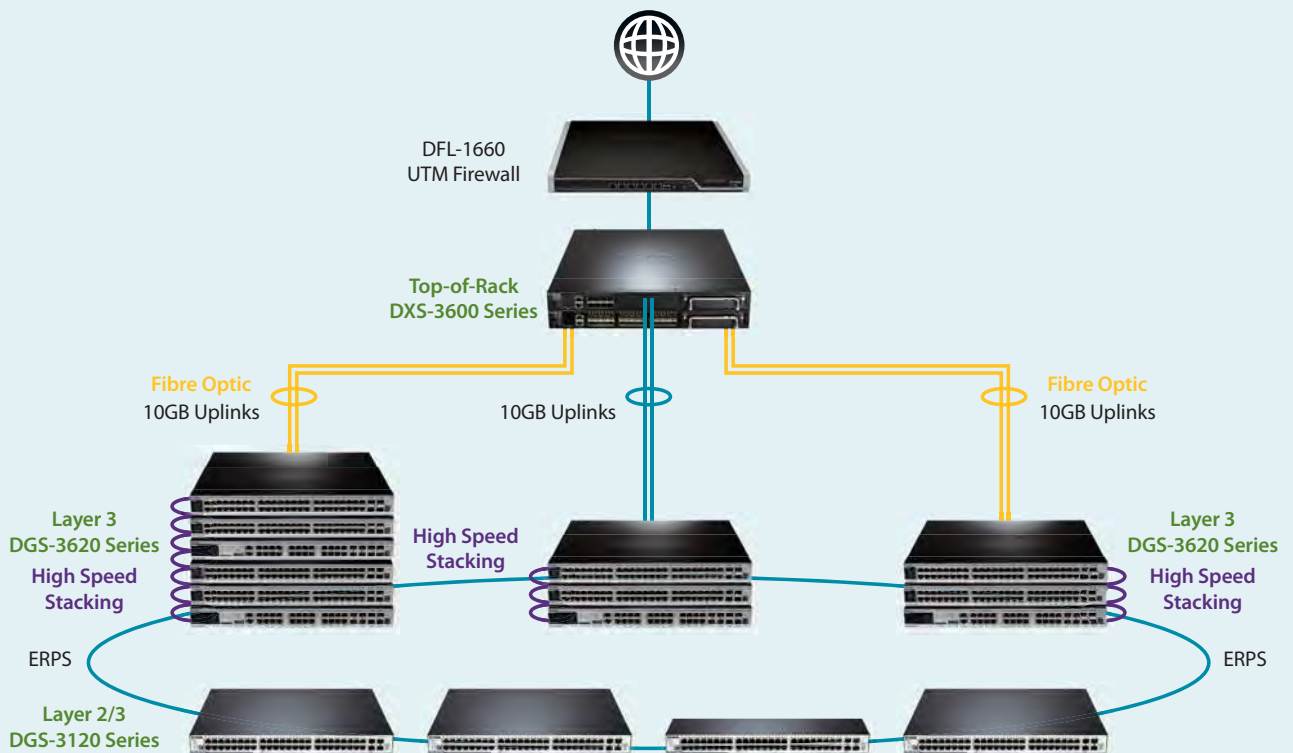
Throughout the 30 years, D-Link has been developing, deploying and supporting robust end-to-end networking solutions for businesses around the world, achieving growth, not only for ourselves, but also for our customers. D-Link ranges of products help you find the right solution for your business, from the core of your network to its edge. More performance, scalability, reliability, flexibility, and enhanced functionality at greater value.



## Large Businesses



## Enterprises







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Fax (66-2) 656 6042  
Opening Hours: 10.00am – 7.00pm (Mon – Sun)

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Opening Hours: 10.30am – 7.30pm (Mon – Sun)

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Fax: (603) 8070-9633  
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Fax: (05-11) 3655 588

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**MarketForce Integrated Pte Ltd**  
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Singapore 387299  
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Fax : (85-5) 2388 1040  
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